QUEST INDUSTRIAL PRODUCTS

SAFETY DATA SHEET

1. Identification

Product identifier WHITE IF-7624 101219-00-006

Other means of identification

Product Code 62285 033295 406
Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Company nameQuest Industrial Products, LLC.AddressN92 W14701 Anthony Avenue

Menomonee Falls, WI 53051

United States

Telephone General Assistance

Website quest-ip.com
E-mail info@quest-ip.com

Emergency phone number Chemtrec Phone 800-424-9300

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2

Carcinogenicity Category 2
Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

(262) 255-9500

Specific target organ toxicity, repeated

exposure

Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements

Environmental hazards

Health hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing

causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting

Category 1

Category 3

effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

 Response If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable

for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If exposed or concerned: Get medical

advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from Storage

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information 87.5% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 87.5% of the mixture consists of component(s) of unknown long-term hazards to the

aquatic environment.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|------------|-----------|
| ACETONE | | 67-64-1 | 30 to <40 |
| PROPANE | | 74-98-6 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| N-BUTYL ACETATE | | 123-86-4 | 5 to <10 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 5 to <10 |
| TITANIUM DIOXIDE | | 13463-67-7 | 5 to <10 |
| 2-PENTANONE | | 107-87-9 | 1 to <5 |
| Other components below reportable | e levels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or Ingestion

poison control center. Rinse mouth.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation, May

cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with

Material name: WHITE IF-7624 101219-00-006

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke, Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air C Components | Type | Value | Form |
|--|--------------------------|------------|-------------|
| 2-PENTANONE (CAS 107-87-9) | PEL | 700 mg/m3 | *** |
| 107-07-3) | | 200 ppm | |
| ACETONE (CAS 67-64-1) | PEL | 2400 mg/m3 | |
| , | | 1000 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | PEL | 710 mg/m3 | |
| | | 150 ppm | |
| PROPANE (CAS 74-98-6) | PEL | 1800 mg/m3 | |
| | | 1000 ppm | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |
| US. ACGIH Threshold Limit Values | | | |
| Components | Туре | Value | |
| 2-PENTANONE (CAS | STEL | 150 ppm | |
| 107-87-9) | | 2 kk | |
| ACETONE (CAS 67-64-1) | STEL | 750 ppm | |
| | TWA | 500 ppm | |
| N-BUTANE (CAS 106-97-8) | STEL | 1000 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 200 ppm | |
| | TWA | 150 ppm | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| US. NIOSH: Pocket Guide to Chemic | cal Hazards | | |
| Components | Type | Value | |
| 2-PENTANONE (CAS | TWA | 530 mg/m3 | |
| 107-87-9) | | · · | |
| | | 150 ppm | |
| ACETONE (CAS 67-64-1) | TWA | 590 mg/m3 | |
| | | 250 ppm | |
| N-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 | |
| | | 800 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 950 mg/m3 | |
| | | 200 ppm | |
| | TWA | 710 mg/m3 | |
| | | 150 ppm | |
| PROPANE (CAS 74-98-6) | TWA | 1800 mg/m3 | |
| | | 1000 ppm | |
| US. Workplace Environmental Expo | sure Level (WEEL) Guides | | |
| Components | Type | Value | |
| PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6) | TWA | 50 ppm | |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time | |
|----------------------|-----------|-------------|----------|---------------|--|
| ACETONE (CAS 67-64-1 |) 50 mg/l | Acetone | Urine | * | |

^{* -} For sampling details, please see the source document.

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE

Can be absorbed through the skin.

(CAS 108-65-6)

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Aerosol. Liquefied gas.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point -305.68 °F (-187.6 °C) estimated Initial boiling point and boiling -43.78 °F (-42.1 °C) estimated

range

_.

Flash point -156.0 °F (-104.4 °C) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

1.9 % estimated

(%)

Flammability limit - upper

12.8 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 2608.91 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Document #23852400

Exposure guidelines

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature 55

550 °F (287.78 °C) estimated

Decomposition temperature

Not available.

Viscosity

Other information Density

6.69 lbs/gal

Explosive properties

Not explosive.

Flammability class

Flammable IA estimated

Heat of combustion (NFPA 30B)

PA 25.67 kJ/g estimated

Oxidizing properties

Percent volatile

Not oxidizing. 77.99

Specific gravity

0.8

VOC

330.59 g/l Material

2.76 lbs/gal Material 526.76 g/l Regulatory 4.4 lbs/gal Regulatory

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong acids. Acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.

Incompatible materials

....

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May c

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Acute toxicity
Components

Narcotic effects.

Species

2-PENTANONE (CAS 107-87-9)

Acute

Oral

LD50

Rat

3.73 g/kg

Test Results

ACETONE (CAS 67-64-1)

Acute

Dermal

LD50

Rabbit

> 15800 mg/kg

Inhalation

LC50

Rat

76 mg/l, 4 Hours

Components Species **Test Results** Oral LD50 Mouse 3000 mg/kg Rat 5800 mg/kg N-BUTANE (CAS 106-97-8) **Acute** Inhalation LC50 Mouse 680 mg/l, 2 Hours Rat 658 mg/l, 4 Hours N-BUTYL ACETATE (CAS 123-86-4) Acute Inhalation LC50 Wistar rat 160 mg/l, 4 Hours Oral LD50 Rat 14000 mg/kg **PROPANE (CAS 74-98-6) Acute** Inhalation LC50 Rat > 1442.847 mg/l, 15 Minutes * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes skin irritation. Causes serious eye irritation. Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity Suspected of causing cancer. IARC Monographs. Overall Evaluation of Carcinogenicity TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. **US. National Toxicology Program (NTP) Report on Carcinogens** Not listed. Components in this product have been shown to cause birth defects and reproductive disorders in Reproductive toxicity laboratory animals. Suspected of damaging fertility or the unborn child. Specific target organ toxicity -May cause drowsiness and dizziness. single exposure Specific target organ toxicity -Causes damage to organs through prolonged or repeated exposure. repeated exposure **Aspiration hazard** Not an aspiration hazard. Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. 12. Ecological information **Ecotoxicity** Harmful to aquatic life with long lasting effects. Components **Species Test Results** 2-PENTANONE (CAS 107-87-9) Aquatic Fish LC50 Fathead minnow (Pimephales promelas) 1190 - 1290 mg/l, 96 hours

| Components | | Species | Test Results |
|---------------------|-----------------|---|------------------------------|
| ACETONE (CAS 67-64 | I-1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| N-BUTYL ACETATE (| CAS 123-86-4) | | |
| Aquatic | | · | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours |
| TITANIUM DIOXIDE (C | CAS 13463-67-7) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| 2-PENTANONE | 0.91 |
|-----------------|-------|
| ACETONE | -0.24 |
| N-BUTANE | 2.89 |
| N-BUTYL ACETATE | 1.78 |
| PROPANE | 2.36 |

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

> under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name Transport hazard class(es) UN1950, Aerosols, Flammable

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82 **Packaging exceptions** 306 None Packaging non bulk

None Packaging bulk

IATA

UN number UN1950

UN proper shipping name

Aerosols, Flammable

Transport hazard class(es)

Class 2.1

Subsidiary risk

Label(s) 2.1

Packing group

Not applicable.

Environmental hazards

No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

UN proper shipping name

Aerosols, Flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

Environmental hazards

Marine pollutant

No.

EmS

Not available.

Not established.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA: IMDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

 2-PENTANONE (CAS 107-87-9)
 Listed.

 ACETONE (CAS 67-64-1)
 Listed.

 N-BUTANE (CAS 106-97-8)
 Listed.

 N-BUTYL ACETATE (CAS 123-86-4)
 Listed.

 PROPANE (CAS 74-98-6)
 Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Immediate Hazard - Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

ACETONE (CAS 67-64-1)

6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1)

35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1)

6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

N-BUTYL ACETATE (CAS 123-86-4)

Low priority

Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

ACETONE (CAS 67-64-1) N-BUTANE (CAS 106-97-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

US. Massachusetts RTK - Substance List

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

2-PENTANONE (CAS 107-87-9) **ACETONE (CAS 67-64-1)**

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2-PENTANONE (CAS 107-87-9) **ACETONE (CAS 67-64-1)** N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

US, Rhode Island RTK

ACETONE (CAS 67-64-1) N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

TITANIUM DIOXIDE (CAS 13463-67-7)

Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) Listed: June 15, 2001

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

01-25-2017 Issue date

Version # 01

Health: 2* **HMIS®** ratings

Flammability: 4 Physical hazard: 0

Health: 2 **NFPA** ratings

> Flammability: 4 Instability: 0

Material name: WHITE IF-7624 101219-00-006

SDS US

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

QUEST INDUSTRIAL PRODUCTS

SAFETY DATA SHEET

1. Identification

Product identifier BLACK IF-6568 101219-00-005 ..

Other means of identification

Product Code 62285 033296 406

Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Company name Quest Industrial Products, LLC.
Address Quest Industrial Products, LLC.
N92 W14701 Anthony Avenue

N92 W14701 Anthony Avenue Menomonee Falls, WI 53051

United States

Telephone . General Assistance

eneral Assistance (262) 255-9500

Website quest-ip.com E-mail info@quest-ip.com

Emergency phone number Chemtrec Phone 800-424-9300

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas
Serious eye damage/eye irritation Category 2A

Carcinogenicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

OSHA defined hazards Not classified.

Label elements

Health hazards



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Harmful to aquatic life.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

ciassified (FINOC)

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|------------|-----------|
| ACETONE | | 67-64-1 | 30 to <40 |
| N-BUTYL ACETATE | | 123-86-4 | 10 to <20 |
| PROPANE | | 74-98-6 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 5 to <10 |
| 2-PENTANONE | | 107-87-9 | 1 to <5 |
| CARBON BLACK | | 1333-86-4 | 0.1 to <1 |
| Other components below reportable | elevels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

poison control center. Rinse mouth.

Most important symptoms/effects, acute and

Ingestion

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when

exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air Components | Contaminants (29 CFR 1910. Type | Value | |
|--|------------------------------------|-----------------------|--|
| 2-PENTANONE (CAS 107-87-9) | PEL | 700 mg/m3 | |
| ACETONE (CAS 67-64-1) | PEL | 200 ppm 2400 mg/m3 | |

Material name: BLACK IF-6568 101219-00-005 ...

Document #23852500

| • | 1000 ppm 3.5 mg/m3 710 mg/m3 150 ppm 1800 mg/m3 1000 ppm | |
|----------|---|--|
| | 710 mg/m3 150 ppm 1800 mg/m3 | |
| | 150 ppm 1800 mg/m3 | |
| | 1800 mg/m3 | |
| | _ | |
| | | |
| • | | |
| • | Value | Form |
| L | 150 ppm | |
| L | 750 ppm | |
| | | |
| | 3 mg/m3 | Inhalable fraction. |
| L | 1000 ppm | |
| <u>L</u> | 200 ppm | |
| L | 150 ppm | |
| | | |
| • | Value | |
| | 530 mg/m3 | |
| | 150 ppm | |
| \ | 590 mg/m3 | |
| | 250 ppm | |
| | 0.1 mg/m3 | |
| L | 1900 mg/m3 | |
| | 800 ppm | |
| L | 950 mg/m3 | |
| | 200 ppm | |
| • | 710 mg/m3 | |
| | 150 ppm | |
| | 1800 mg/m3 | |
| | 1000 ppm | |
| • | Value | |
| | | |
| • | əu ppm | |
| | | |
| | E L L L L L L L L L L L L L L L L L L L | L 150 ppm 1. 750 ppm 1. 500 ppm 2. 3 mg/m3 1. 1000 ppm 1. 200 ppm 1. 150 ppm 1. 530 mg/m3 1. 50 ppm 1. 590 mg/m3 1. 250 ppm 1. 1900 mg/m3 1 |

Biol

| ACGIH Biological Exposure Indices | | | | | | |
|-----------------------------------|---------|-------------|----------|---------------|--|--|
| Components | Value | Determinant | Specimen | Sampling Time | | |
| ACETONE (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * | | |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Aerosol. Liquefied gas.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

pН

Not available.

Melting point/freezing point

-305.68 °F (-187.6 °C) estimated

Initial boiling point and boiling

-43.78 °F (-42.1 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

1.4 % estimated

Flammability limit - upper

12.8 % estimated

Not available. Explosive limit - lower (%)

Explosive limit - upper (%)

Not available.

Vapor pressure

2347.77 hPa estimated Not available.

Vapor density

Not available.

Relative density

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature

550 °F (287.78 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Density

6.32 lbs/gal

Explosive properties

Not explosive.

Flammability class

Flammable IA estimated

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Heat of combustion (NFPA

30B)

Not oxidizing.

Oxidizing properties Percent volatile

82.67

Specific gravity

0.76

VOC

4.48 lbs/gal Regulatory 537.2 g/l Regulatory 2.9 lbs/gal Material 348 g/l Material

26.4 kJ/g estimated

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous decomposition

No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

> 8000 mg/kg

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Narcotic effects.

| rioute texionly | riandonio directo. | |
|-----------------------|--------------------|------------------|
| Components | Species | Test Results |
| 2-PENTANONE (CAS 107- | -87-9) | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Rat | 3.73 g/kg |
| ACETONE (CAS 67-64-1) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 15800 mg/kg |
| Inhalation | | |
| LC50 | Rat | 76 mg/l, 4 Hours |
| Oral | | |
| LD50 | Mouse | 3000 mg/kg |
| | Rat | 5800 mg/kg |
| CARBON BLACK (CAS 13 | 33-86-4) | |
| <u>Acute</u> | | |

Oral LD50

Rat

Components **Species Test Results**

N-BUTANE (CAS 106-97-8)

Acute

Inhalation

LC50 Mouse 680 mg/l, 2 Hours 658 mg/l, 4 Hours

Rat

N-BUTYL ACETATE (CAS 123-86-4)

Acute

Inhalation

LC50 Wistar rat 160 mg/l, 4 Hours

Oral

LD50 Rat

14000 mg/kg

PROPANE (CAS 74-98-6)

Acute Inhalation

LC50 Rat > 1442.847 mg/l, 15 Minutes

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eve damage/eve

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity **CARBON BLACK (CAS 1333-86-4)**

2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life.

Components **Species Test Results**

2-PENTANONE (CAS 107-87-9)

Aquatic

Fish **LC50** Fathead minnow (Pimephales promelas) 1190 - 1290 mg/l, 96 hours

ACETONE (CAS 67-64-1)

Aquatic

Crustacea **EC50** Water flea (Daphnia magna) 10294 - 17704 mg/l, 48 hours Fish **LC50** Rainbow trout.donaldson trout 4740 - 6330 mg/l, 96 hours

(Oncorhynchus mykiss)

Material name: BLACK IF-6568 101219-00-005 ..

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Components Species Test Results

N-BUTYL ACETATE (CAS 123-86-4)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 17 - 19 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

 2-PENTANONE
 0.91

 ACETONE
 -0.24

 N-BUTANE
 2.89

 N-BUTYL ACETATE
 1.78

 PROPANE
 2.36

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulationsDispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name

pping name UN1950, Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

UN proper shipping name

Aerosols, Flammable

Transport hazard class(es)

2.1

Subsidiary risk

Label(s)

Class

2.1

Packing group

Not applicable.

Environmental hazards

Marine pollutant

No.

EmS

Not available.

Transport in bulk according to

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Annex II of MARPOL 73/78 and

Not established.

the IBC Code

DOT



IATA; IMDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-PENTANONE (CAS 107-87-9) Listed. **ACETONE (CAS 67-64-1)** Listed. N-BUTANE (CAS 106-97-8) Listed. N-BUTYL ACETATE (CAS 123-86-4) Listed. PROPANE (CAS 74-98-6) Listed.

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SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6)**

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

ACETONE (CAS 67-64-1)

6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1)

35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1)

6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-PENTANONE (CAS 107-87-9)

Low priority

ACETONE (CAS 67-64-1)

Low priority Low priority

N-BUTYL ACETATE (CAS 123-86-4)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ACETONE (CAS 67-64-1)

CARBON BLACK (CAS 1333-86-4)

N-BUTANE (CAS 106-97-8)

US. Massachusetts RTK - Substance List

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

CARBON BLACK (CAS 1333-86-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

CARBON BLACK (CAS 1333-86-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

Material name: BLACK IF-6568 101219-00-005 ...

SDS US

US. Pennsylvania Worker and Community Right-to-Know Law

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

CARBON BLACK (CAS 1333-86-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

US. Rhode Island RTK

ACETONE (CAS 67-64-1) N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4)

Listed: February 21, 2003 Listed: June 11, 2004

International Inventories

Country(s) or region

| Australia | Australian Inventory of Chemical Substances (AICS) | No |
|-------------|--|-----|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

01-19-2017 Issue date **Revision date** 01-25-2017

Version # 03

United States & Puerto Rico

Health: 2* **HMIS®** ratings Flammability: 4

Physical hazard: 0

Health: 2 NFPA ratings

Flammability: 4 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available, THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this

material will infringe any such patents, and for obtaining any required licenses.

Material name: BLACK IF-6568 101219-00-005 ..

SDS US 11 / 12

Yes

On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Revision information

Hazard(s) identification: Hazard statement Hazard(s) identification: GHS Signal Words

First-aid measures: Eye contact

First-aid measures: Skin contact
Fire-fighting measures: Fire fighting equipment/instructions

Fire-fighting measures: Specific methods Fire-fighting measures: General fire hazards

Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities

Exposure controls/personal protection: Respiratory protection

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: 137784 (0

137784 (001 Blue, 002 Brown, 166 Gray, 009 Red, 044 Tan)

LAN-LA2187 PATCH

Product Name: TOUCH-UP TENDERTUFF

Revision Date: Jan 12, 2016

Version: 1.0

Supplier: Landscape Structures Inc.

Address: 601 7th Street South, Delano, MN USA 55328

Phone: 1-888-438-6574

On the state of th

Contact Person: Compliance Administrator

e-mail: cpsiainfo@playlsi.com

Emergency Phone:

CHEMTREC 24 HOURS: 1-800-424-9300

Product/Recommended Uses: Adhesive Patching Compound

SECTION 2) HAZARDS IDENTIFICATION

Notice:

All warnings regarding chemicals in a dust format do not apply to any of our painting product line. It is mandatory to disclose all hazardous materials per the GHS guidelines, but there is no dust exposure possible in this product line formulations.

Classification:

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 2

Eye Irritation - Category 2A

Skin Sensitizer - Category 1

Flammable Liquids Category 1

Pictograms:







Signal Word:

Danger

Hazardous Statements - Health:

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

Hazardous Statements - Physical:

H224 - Extremely flammable liquid and vapor

Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P233 Keep container tightly closed.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash? thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilation/lighting] equipment.
- P242 Use only non-sparking tools.
- P243 Take action to prevent static discharges.

Precautionary Statements - Response:

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P314 Get Medical advice/attention if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P302 + P352 IF ON SKIN: Wash with plenty of water
- P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention.
- P321 Specific treatment (see first-aid on this label).
- P362 + P364 Take off contaminated clothing. And wash it before reuse.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P370 + P378 In case of fire: Use ... to extinguish.

Precautionary Statements - Storage:

- P403 + P405 Store in a well-ventilated place. Store locked up.
- P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal:

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation. Under RCRA it is the responsibility of the user of the products to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Hazards Not Otherwise Classified (HNOC):

None

Acute toxicity of 29.48% of the mixture is unknown

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Chemical Name | % By Weight |
|--------------|--|-------------|
| 0000067-64-1 | ACETONE | 27% - 39% |
| 0000078-93-3 | METHYL ETHYL KETONE | 27% - 39% |
| NA-ERAEnviro | Non Hazardous Solid | 23% - 34% |
| 0013463-67-7 | TITANIUM DIOXIDE | 0.1% - 1% |
| 0001843-05-6 | Methanone, [2-hydroxy-4-(octyloxy)phenyl]phenyl- | 0.1% - 0.8% |
| 0001333-86-4 | CARBON BLACK | 0.0% - 0.3% |
| 0007631-86-9 | SILICA, AMORPHOUS | Trace |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld to protect confidentiality.

Inhalation:

Eliminate all ignition sources if safe to do so. Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. Take precautions to ensure your own safety (e.g. wear appropriate protective equipment). Get medical advice/attention: IF exposed, concerned or feeling unwell.

Skin Contact:

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard. IF exposed or concerned: Get medical advice/attention.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell or concerned.

Most Important Symptoms and Effects, Both acute and Delayed:

No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

No data available.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media:

No data available.

Specific Hazards in Case of Fire:

Flammable vapors may travel distances along the ground before reaching a source of ignition and flashing back.

Fire-fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment:

Respirator should be used if the accidental release location is not well ventilated. Eye Protection and Gloves should be worn when handling material.

Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Avoid contact with skin and eyes. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up:

SECTION 7) HANDLING AND STORAGE

General:

Wash hands after use. Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize containers to empty them.

Store between 40 °F (4.4 °C) and 110 °F (43.3 °C). This product is not damaged by freezing however it may rupture the container and result in spillage.

Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly dispose of contaminated material, which cannot be decontaminated.

Respiration protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

All electrical equipment should comply with NFPA NEC standards.

| Chemical Name | OSHA STEL (mg/m3) | OSHA STEL (ppm) | OSHA TWA (mg/m3) | OSHA TWA (ppm) | OSHA Skin Carcinogen designation | OSHA Tables (Z1, Z2, Z3) | NIOSH STEL (mg/m3) | NIOSH STEL (ppm) | NIOSH TWA (mg/m3) | NIOSH TWA (ppm) | ACGIH - ACGIH |
|------------------------|-------------------------|-----------------------|-------------------------------|----------------------|----------------------------------|--------------------------------|--------------------------|------------------------|---------------------------------------|-----------------------|------------------|
| ACETONE | | | 2400 | 1000 | | 1 | Fig. 1 | | 590 | 250 | 1 |
| CARBON BLACK | | | 3.5 | | | 1 | | | 3.5a | | 1 |
| METHYL ETHYL KETONE | | | 590 | 200 | | 1 | 885 | 300 | 590 | 200 | 1 |
| SILICA, AMORPHOUS | | | 80 mg/m3 percent SiO2+2 | 20 (b) | | 1,3 | | | 6 | | |
| TITANIUM DIOXIDE | | | 15 | | | 1 | | | · · · · · · · · · · · · · · · · · · · | b | 1 |

| Chemical Name | ACGIH TWA (ppm) | ACGIH TWA (mg/m3) | ACGIH STEL (ppm) | ACGIH STEL (mg/m3) | ACGIH TLV Basis | ACGIH Notations | ACGIH Carcinogen |
|------------------------|-----------------------|-------------------------|------------------------|--------------------------|------------------------------------|--------------------|---------------------|
| ACETONE | 250 | | 500 | | CNS impair; URT & eye irr | A4; BEI | A4 |
| CARBON BLACK | | 3 (I) | | | Bronchitis | А3 | А3 |
| METHYL ETHYL KETONE | 200 | 590 | 300 | 885 | URT irr; CNS & PNS impair | BEI | |
| SILICA, AMORPHOUS | 3 | | | | | | |
| TITANIUM DIOXIDE | | 10 | | | LRT irr | A4 | A4 |

⁽I) - Inhalable fraction, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, PNS - Peripheral nervous system, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

 Density
 7.30000 lb/gal

 % Solids By Weight
 28.25060%

 Density VOC
 4.86910 lb/gal

 % VOC
 66.70000%

Appearance Viscous Liquid
Odor Threshold N/A
Odor Description N/A
pH N/A
Water Solubility N/A

Flammability Flashpoint below 73 °F

 Flash Point Symbol

 Flash Point
 73 °F

 Viscosity
 N/A

 Lower Explosion Level
 N/A

 Upper Explosion Level
 N/A

 Vapor Pressure
 N/A

Vapor Density Heavier than air

Freezing Point N/A
Melting Point N/A
Boiling Point N/A
Auto Ignition Temp N/A
Decomposition Pt N/A

Evaporation Rate Slower than ether

SECTION 10) STABILITY AND REACTIVITY

Stability:

This material is stable under normal temperature and storage conditions.

Conditions to Avoid:

Prolonged exposure to temperatures above 110 °F (43 °C) and sources of ignition.

Hazardous Reactions/Polymerization:

Will not occur.

Incompatible materials:

Strong oxidizers, inorganic oxidizers and halogens.

Hazardous Decomposition Products:

Oxides of carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

No Data Available

Skin Corrosion/Irritation:

No Data Available

Serious Eye Damage/Irritation:

Causes serious eye irritation

Respiratory/Skin Sensitization:

May cause an allergic skin reaction

Germ Cell Mutagenicity:

No Data Available

Carcinogenicity:

No Data Available

Reproductive Toxicity:

No Data Available

Specific Target Organ Toxicity - Single Exposure:

May cause drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure:

May cause damage to organs through prolonged or repeated exposure

Aspiration Hazard:

No Data Available

Acute Toxicity:

No Data Available

0001333-86-4

CARBON BLACK

LC50 (rat): 6750 mg/m3 (4-hour exposure); cited as 27000 mg/m3 (27 mg/L) (1-hour exposure) (3)

0000067-64-1

ACETONE

LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m3 (4-hour exposure) (29)

LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m3 (4-hour exposure) (29)

LD50 (oral, female rat): 5800 mg/kg (24)

LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)

LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)

LD50 (oral, mouse): 3000 mg/kg (32,unconfirmed)

LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg) (30)

0000078-93-3

METHYL ETHYL KETONE

LC50 (male rat): 11,700 ppm (4-hour exposure) (3)

LC50 (male rat): 11,300 ppm (4-hour exposure); cited as 23.5 mg/L (7,990 ppm) (8-hour exposure) (4)

LD50 (oral, adult male rat): 2,740 mg/kg; cited as 3.4 mL/kg (1)

LD50 (dermal, rabbit): greater than 5,000 mg/kg (29)

Potential Health Effects - Miscellaneous

0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

0000078-93-3 METHYL ETHYL KETONE

Material is irritating to mucous membranes and upper respiratory tract. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, eyes, respiratory system, skin. Prolonged or repeated overexposure may cause any of the following: conjunctivitis, dermatitis. High concentrations have caused embryotoxic effects in laboratory animals. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

0001333-86-4 CARBON BLACK

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease. WARNING: This chemical is known to the State of California to cause cancer.

0013463-67-7 TITANIUM DIOXIDE

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat?s lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level are not relevant to the workplace.?Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.?

Chronic Exposure

0001333-86-4 CARBON BLACK

CARCINOGENIC EFFECTS: In 1996, the IARC reevaluated Carbon Black as a Group 2B carcinogen. This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence.

Prolonged inhalation of Carbon black can result in lung disease. Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:

No Data Available

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available

Bio-accumulative Potential

0000067-64-1 ACETONE

Does not bioaccumulate

0001333-86-4 CARBON BLACK

A relevant bioaccumulation potential of carbon black is not expected based on its insolubility in organic solvents and in water. Furthermore, since the aggregate diameter of carbon black varies between 80 nm and 810 nm, bioaccumulation of particulate carbon black is not likely oweing to the large diameter of the solid aggregate particles.

Persistence and Degradability

0000067-64-1 ACETONE

91% readily biodegradable, Method: OECD Test Guideline 301B

0001333-86-4 CARBON BLACK

Carbon Black's insolubility in water results in it not being biodegradable in any medium or by biota. It is considered persistent in the natural environment.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

UN/NA Number: 1133 Proper shipping name: Adhesives Hazard Class: 3

Packing Group: III

IMDG Information:

UN/NA Number: 1133

Proper shipping name: Adhesives Hazard Class: 3

Packing Group: III

IATA Information:

UN/NA Number: 1133 Proper shipping name: Adhesives

Hazard Class: 3 Packing Group: III

SECTION 15) REGULATORY INFORMATION

Warning:

California Proposition 65: This product contains chemical(s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.

| | reproductive flami. | | |
|--------------|--|-------------|---|
| CAS | Chemical Name | % By Weight | Regulation List |
| 0000067-64-1 | ACETONE | 27% - 39% | CERCLA,SARA312,TSCA,RCRA |
| 0000078-93-3 | METHYL ETHYL KETONE | 27% - 39% | CERCLA,SARA312,TSCA,RCRA |
| NA-ERAEnviro | Non Hazardous Solid | 23% - 34% | SARA312 |
| 0006422-86-2 | TEREPHTHALIC ACID, BIS (2-ETHYLHEXYL)ESTER | 0.1% - 1% | SARA312,TSCA |
| 0013463-67-7 | TITANIUM DIOXIDE | 0.1% - 1% | SARA312,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer |
| 0001843-05-6 | Methanone, [2-hydroxy-4- (octyloxy)phenyl]phenyl- | 0.1% - 0.8% | SARA312,TSCA |
| 0008013-07-8 | SOYBEAN OIL EPOXIDE | 0.0% - 0.6% | SARA312,TSCA |
| 0000103-23-1 | DI(2-ETHYLHEXYL) ADIPATE | 0.0% - 0.4% | SARA312,TSCA |
| 0001333-86-4 | CARBON BLACK | 0.0% - 0.3% | SARA312,TSCA,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer |
| NA-ERAEnviro | Non Hazardous Volatile | Trace | SARA312 |
| 0002786-76-7 | NAPHTHANIL RED | Trace | SARA312,TSCA |
| 0014807-96-6 | TALC | Trace | SARA312,TSCA |
| 0063468-13-3 | 2-ETHYLHEXYL METHYL TEREPHTHALATE | Trace | SARA312 |
| 0000112-80-1 | OLEIC ACID | Trace | SARA312,TSCA |
| 0021645-51-2 | ALUMINUM HYDROXIDE | Trace | SARA312,TSCA |
| 0007631-86-9 | SILICA, AMORPHOUS | Trace | SARA312,TSCA |

SECTION 16) OTHER INFORMATION

Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG Canadian Transportation of Dangerous Goods; CAS Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA National Fire Protection Association; OEL-Occupational Exposure Limits; OSHA-Occupational Safety and Health Administration, US Department of Labor; PEL-Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; US DOT- US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

Additional Information:

Any concentration shown as a range is to protect confidentiality or is due to batch variation

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

all when it is the first of the wings of the म् अस्तराच्याच्याः अस्तुत्रे स्टब्स् स्टब्स्यान्याः अस्तुत्रे स्टब्स्य

QUEST INDUSTRIAL PRODUCTS

SAFETY DATA SHEET

1. Identification

Product identifier RED IF-6546 101219-00-009 ...

Other means of identification

Product Code 62285 030940 406

Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Company name Quest Industrial Products, LLC.

Address N92 W14701 Anthony Avenue

Menomonee Falls, WI 53051

United States

Telephone General Assistance

neral Assistance (262) 255-9500

Website quest-ip.com E-mail info@quest-ip.com

Emergency phone number Chemtrec Phone 800-424-9300

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas
Serious eye damage/eye irritation Category 2A

Carcinogenicity Category 2

Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Category 1
Category 2

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 3

OSHA defined hazards

Not classified.

Label elements

Health hazards



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

Material name: RED IF-6546 101219-00-009 ..

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Store in a well-ventilated place. Protect from sunlight, Do not expose to temperatures

exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information 86.93% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 86.93% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|------------|-----------|
| ACETONE | | 67-64-1 | 30 to <40 |
| PROPANE | | 74-98-6 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| N-BUTYL ACETATE | | 123-86-4 | 5 to <10 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 5 to <10 |
| 2-PENTANONE | | 107-87-9 | 1 to <5 |
| XYLENE | | 1330-20-7 | 1 to <5 |
| ETHYLBENZENE | | 100-41-4 | 0.1 to <1 |
| TITANIUM DIOXIDE | | 13463-67-7 | 0.1 to <1 |
| Other components below reportable | levels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or Ingestion

poison control center. Rinse mouth.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| Components | Туре | Value | Form |
|-------------------------------|------|------------|------|
| 2-PENTANONE (CAS 107-87-9) | PEL | 700 mg/m3 | |
| · | | 200 ppm | |
| ACETONE (CAS 67-64-1) | PEL | 2400 mg/m3 | |
| | | 1000 ppm | |

| US. OSHA Table Z-1 Limits for Air C Components | ontaminants (29 CFR 1910.1 Type | 000) Value | Form |
|--|------------------------------------|-----------------------|-------------|
| ETHYLBENZENE (CAS 100-41-4) | PEL | 435 mg/m3 | |
| N-BUTYL ACETATE (CAS 123-86-4) | PEL | 100 ppm 710 mg/m3 | |
| PROPANE (CAS 74-98-6) | PEL | 150 ppm 1800 mg/m3 | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | PEL | 1000 ppm 15 mg/m3 | Total dust. |
| XYLENE (CAS 1330-20-7) | PEL | 435 mg/m3 100 ppm | |
| US. ACGIH Threshold Limit Values | | • • | |
| Components | Туре | Value | |
| 2-PENTANONE (CAS 107-87-9) | STEL | 150 ppm | |
| ACETONE (CAS 67-64-1) | STEL | 750 ppm | |
| | TWA | 500 ppm | |
| ETHYLBENZENE (CAS 100-41-4) | TWA | 20 ppm | |
| N-BUTANE (CAS 106-97-8) | STEL | 1000 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 200 ppm | |
| | TWA | 150 ppm | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| XYLENE (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| US. NIOSH: Pocket Guide to Chemic | cal Hazards | | |
| Components | Туре | Value | |
| 2-PENTANONE (CAS 107-87-9) | TWA | 530 mg/m3 | |
| | | 150 ppm | |
| ACETONE (CAS 67-64-1) | TWA | 590 mg/m3 | |
| ETUVI DENZENE (OAO | 0.75 | 250 ppm | |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 545 mg/m3 | |
| | T\A/A | 125 ppm | |
| | TWA | 435 mg/m3 100 ppm | |
| N-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 | |
| | | 800 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 950 mg/m3 | |
| | | 200 ppm | |
| | TWA | 710 mg/m3 | |
| DDODANE (CAS 74 09 S) | TIA/A | 150 ppm | |
| PROPANE (CAS 74-98-6) | TWA | 1800 mg/m3 | |
| 110 W. L. L | | 1000 ppm | |
| US. Workplace Environmental Expo | | \$ / = 1 | |
| Components | Туре | Value — | |
| PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6) | TWA | 50 ppm | : |

Biological limit values

| ACGIH Biological Exposu Components | Value | Determinant | Specimen | Sampling Time | |
|---------------------------------------|----------|---|---------------------|---------------|--|
| ACETONE (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * | |
| ETHYLBENZENE (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * | |
| XYLENE (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * | |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE

Can be absorbed through the skin.

(CAS 108-65-6)

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation. or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Wear suitable protective clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Aerosol. Liquefied gas.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

pН

Not available.

Melting point/freezing point

-305.68 °F (-187.6 °C) estimated

Initial boiling point and boiling

-43.78 °F (-42.1 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits Flammability limit - lower

(%)

1.4 % estimated

Flammability limit - upper

12.8 % estimated

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

2372.49 hPa estimated

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature

550 °F (287.78 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Density

6.35 lbs/gal

Explosive properties

Not explosive.

Flammability class

Flammable IA estimated

Heat of combustion (NFPA

26.53 kJ/g estimated

30B)

Not oxidizing.

Percent volatile

Oxidizing properties

82.43

Specific gravity

0.76

VOC

4.49 lbs/gal Regulatory 538.45 g/l Regulatory 2.9 lbs/gal Material 348 g/l Material

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Strong acids. Acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Narcotic effects.

Components

Species

Test Results

2-PENTANONE (CAS 107-87-9)

Acute

Oral

LD50

Rat

3.73 a/ka

Components **Species Test Results ACETONE (CAS 67-64-1) Acute** Dermal LD50 Rabbit > 15800 mg/kg Inhalation LC50 Rat 76 mg/l, 4 Hours Oral LD50 Mouse 3000 mg/kg Rat 5800 ma/ka ETHYLBENZENE (CAS 100-41-4) Acute Dermai LD50 Rabbit 17800 mg/kg Oral LD50 Rat 3500 mg/kg N-BUTANE (CAS 106-97-8) **Acute** Inhalation LC50 Mouse 680 mg/l, 2 Hours Rat 658 mg/l, 4 Hours N-BUTYL ACETATE (CAS 123-86-4) **Acute** Inhalation LC50 Wistar rat 160 mg/l, 4 Hours Oral LD50 Rat 14000 mg/kg **PROPANE (CAS 74-98-6) Acute** Inhalation LC50 Rat > 1442.847 mg/l, 15 Minutes XYLENE (CAS 1330-20-7) **Acute Dermal** LD50 Rabbit > 43 g/kg Inhalation LC50 Mouse 3907 mg/i, 6 Hours Rat 6350 mg/l, 4 Hours Oral **LD50** Mouse 1590 mg/kg Rat 3523 - 8600 mg/kg * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Causes serious eye irritation. irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. This product is not expected to cause skin sensitization. Skin sensitization Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Suspected of causing cancer. Carcinogenicity Material name: RED IF-6546 101219-00-009 ..

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLBENZENE (CAS 100-41-4) TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.

XYLENE (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

EcotoxicityToxic to aquatic life. Harmful to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|----------------------|----------------|---|------------------------------|
| 2-PENTANONE (CAS 1 | 07-87-9) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 1190 - 1290 mg/l, 96 hours |
| ACETONE (CAS 67-64 | -1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| ETHYLBENZENE (CAS | 100-41-4) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.37 - 4.4 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours |
| N-BUTYL ACETATE (C | AS 123-86-4) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours |
| TITANIUM DIOXIDE (C. | AS 13463-67-7) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |
| XYLENE (CAS 1330-20 | -7) | · | - |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7.711 - 9.591 mg/l, 96 hours |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

| Partition coefficient n-octanol / water (log Kow) | |
|---|------------|
| 2-PENTANONE | 0.91 |
| ACETONE | -0.24 |
| ETHYLBENZENE | 3.15 |
| N-BUTANE | 2.89 |
| N-BUTYL ACETATE | 1.78 |
| PROPANE | 2.36 |
| XYLENE | 3.12 - 3.2 |

Material name: RED IF-6546 101219-00-009 ..

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name

UN1950, Aerosols, Flammable

Transport hazard class(es) Class

2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82 306 Packaging exceptions None Packaging non bulk Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, Flammable

2.1 Class Subsidiary risk

2.1 Label(s) Packing group Not applicable.

Environmental hazards No.

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

UN proper shipping name

Transport hazard class(es)

Aerosols, Flammable

Class 2.1 Subsidiary risk Label(s)

Packing group Not applicable.

Environmental hazards

Marine pollutant No.

Not available. **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Material name: RED IF-6546 101219-00-009 ...

SDS US

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

DOT



IATA; IMDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

| 2-PENTANONE (CAS 107-87-9) | Listed. |
|--------------------------------|---------|
| ACETONE (CAS 67-64-1) | Listed. |
| ETHYLBENZENE (CAS 100-41-4) | Listed. |
| N-BUTANE (CAS 106-97-8) | Listed. |
| N-BUTYL ACETATE (CAS 123-86-4) | Listed. |
| PROPANE (CAS 74-98-6) | Listed. |
| XYLENE (CAS 1330-20-7) | Listed. |

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

Material name: RED IF-6546 101219-00-009 ..

62285 030940 406 Version #: 03 Revision date: 01-20-2017 Issue date: 01-19-2017

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|------------------------|------------|-----------|--|
| XYLENE ETHYLBENZENE | 1330-20-7 | 1 to <5 | |
| EINTLDENZENE | 100-41-4 | 0.1 to <1 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ETHYLBENZENE (CAS 100-41-4)

XYLENE (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6)**

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

ACETONE (CAS 67-64-1)

6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1)

35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1)

6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-PENTANONE (CAS 107-87-9)

Low priority

ACETONE (CAS 67-64-1)

Low priority

N-BUTYL ACETATE (CAS 123-86-4)

Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs. tit. 22, 69502.3, subd.

(a))

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Rhode Island RTK

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6) XYLENE (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLBENZENE (CAS 100-41-4)

Listed: June 11, 2004

SILICA, CRYSTALLINE QUARTZ (CAS 14808-60-7) Listed: October 1, 1988

TITANIUM DIOXIDE (CAS 13463-67-7)

Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

1-METHYL-2-PYRROLIDONE (CAS 872-50-4)

Listed: June 15, 2001

International Inventories

United States & Puerto Rico

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |

Toxic Substances Control Act (TSCA) Inventory *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date

01-19-2017

Revision date

01-20-2017

Version #

03

HMIS® ratings

Health: 2*

Flammability: 4 Physical hazard: 0

NFPA ratings

Health: 2 Flammability: 4 Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.

Yes

Revision information

Hazard(s) identification: Hazard statement Fire-fighting measures: General fire hazards

Exposure controls/personal protection: Respiratory protection Exposure controls/personal protection: Other Stability and reactivity: Possibility of hazardous reactions

Other information, including date of preparation or last revision: Disclaimer

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SAFETY DATA SHEET

1. Identification

Product identifier

ORANGE IF-7630 101219-00-093

Other means of identification

Product Code

62285 061238 406

Recommended use

Not available.

Manufacturer/Importer/Supplier/Distributor information

Company name

Quest Industrial Products, LLC. N92 W14701 Anthony Avenue

Menomonee Falls, WI 53051

United States

Telephone

General Assistance

(262) 255-9500

Website

Address

quest-ip.com

E-mail

info@quest-ip.com

Emergency phone number

Chemtrec Phone

800-424-9300

2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Health hazards

Gases under pressure

Liquefied gas Category 2

Skin corrosion/irritation

Serious eye damage/eye irritation

Category 2A Category 2

Carcinogenicity

Category 2

Reproductive toxicity

Category 3 narcotic effects

Specific target organ toxicity, single exposure Specific target organ toxicity, repeated

Category 1

exposure

Category 3

Environmental hazards

Hazardous to the aquatic environment, acute

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable

for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If exposed or concerned: Get medical

advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from Storage

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information 86.61% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 86.61% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|-------------|-----------|
| ACETONE | | 67-64-1 | 30 to <40 |
| PROPANE | | 74-98-6 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| N-BUTYL ACETATE | | 123-86-4 | 5 to <10 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 5 to <10 |
| 2-PENTANONE | | 107-87-9 | 1 to <5 |
| TITANIUM DIOXIDE | | 13463-67-7 | 1 to <5 |
| XYLENE | | 1330-20-7 | 1 to <5 |
| ETHYLBENZENE | | 100-41-4 | 0.1 to <1 |
| Other components below reportable | levels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or

poison control center. Rinse mouth.

Most important

symptoms/effects, acute and

delaved

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container, Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices,

Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| Components | Туре | Value | Form |
|--------------------------------------|--------------|-----------------------|-------------|
| 2-PENTANONE (CAS 107-87-9) | PEL | 700 mg/m3 | : |
| ACETONE (CAS 67-64-1) | PEL | 200 ppm 2400 mg/m3 | |
| ETHYLBENZENE (CAS 100-41-4) | PEL | 1000 ppm 435 mg/m3 | |
| N-BUTYL ACETATE (CAS 123-86-4) | PEL | 100 ppm 710 mg/m3 | ! |
| PROPANE (CAS 74-98-6) | PEL | 150 ppm 1800 mg/m3 | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | PEL | 1000 ppm 15 mg/m3 | Total dust. |
| XYLENE (CAS 1330-20-7) | PEL | 435 mg/m3 100 ppm | |
| US. ACGIH Threshold Limit Values | | | |
| Components | Туре | Value | |
| 2-PENTANONE (CAS 107-87-9) | STEL | 150 ppm | |
| ACETONE (CAS 67-64-1) | STEL | 750 ppm | |
| | TWA | 500 ppm | |
| ETHYLBENZENE (CAS 100-41-4) | TWA | 20 ppm | |
| N-BUTANE (CAS 106-97-8) | STEL | 1000 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 200 ppm | |
| TITANII IN DIOVIDE (OAG | TWA | 150 ppm | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| XYLENE (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| US. NIOSH: Pocket Guide to Chem | ical Hazards | | |
| Components | Туре | Value | |
| 2-PENTANONE (CAS 107-87-9) | TWA | 530 mg/m3 | |
| | | 150 ppm | |
| ACETONE (CAS 67-64-1) | TWA | 590 mg/m3 | |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 250 ppm 545 mg/m3 | |
| | TWA | 125 ppm 435 mg/m3 | |
| | | 100 ppm | |
| N-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 | |

| 116 | NIOSH: | Dookst | Guida | to Char | nioal H | azarda |
|------|--------|--------|-------|---------|---------|--------|
| 115. | NIUSH: | Pocket | Guiae | to Uner | nicai m | azaros |

| Components | Type | Value | |
|--|---------------------------|------------|--|
| | | 800 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 950 mg/m3 | |
| • | | 200 ppm | |
| | TWA | 710 mg/m3 | |
| | | 150 ppm | |
| PROPANE (CAS 74-98-6) | TWA | 1800 mg/m3 | |
| | | 1000 ppm | |
| US. Workplace Environmental Exp | osure Level (WEEL) Guides | | |
| Components | Туре | Value | |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | TWA | 50 ppm | |

(CAS 108-65-6) **Biological limit values**

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time | |
|--------------------------------|----------|---|---------------------|---------------|--|
| ACETONE (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * | |
| ETHYLBENZENE (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | • | |
| XYLENE (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * | |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions, if applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eve wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene

Observe any medical surveillance requirements. When using do not smoke. Always observe good considerations personal hygiene measures, such as washing after handling the material and before eating.

drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Aerosol. Liquefied gas.

Color Not available. Odor Not available. Odor threshold Not available. рΗ Not available.

Material name: ORANGE IF-7630 101219-00-093

62285 061238 406 Version #: 01 Issue date: 01-25-2017

Melting point/freezing point

Initial boiling point and boiling

-305.68 °F (-187.6 °C) estimated -43.78 °F (-42.1 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) estimated

Evaporation rate Flammability (solid, gas) Not available.

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.9 % estimated

(%)

Flammability limit - upper

12.8 % estimated

(%)

Explosive limit - lower (%)

Not available.

er (%) Not available.

Explosive limit - upper (%) Vapor pressure

2325.28 hPa estimated

Vapor density Relative density Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

550 °F (287.78 °C) estimated

Decomposition temperature Viscosity

Not available. Not available.

Other information

Density

6.39 lbs/gal

Explosive properties

Not explosive.

Flammability class
Heat of combustion (NFPA

Flammable IA estimated

30B)

26.92 kJ/g estimated

Oxidizing properties

Not oxidizing.

Percent volatile
Specific gravity

82.12 0.77

VOC

4.5 lbs/gal Regulatory 539.77 g/l Regulatory

347.61 g/l Material 2.9 lbs/gal Material

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Possibility of hazardous

Strong acids. Acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.

Hazardous decomposition

No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Narcotic effects.

| Acute toxicity | Narcotic effects. | |
|--|-------------------|-----------------------------|
| Components | Species | Test Results |
| 2-PENTANONE (CAS 107-87 | -9) | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Rat | 3.73 g/kg |
| ACETONE (CAS 67-64-1) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 15800 mg/kg |
| Inhalation | | |
| LC50 | Rat | 76 mg/l, 4 Hours |
| Orai | | |
| LD50 | Mouse | 3000 mg/kg |
| | Rat | 5800 mg/kg |
| ETHYLBENZENE (CAS 100-4 | | · · |
| Acute | , | |
| <u>Dermal</u> | | |
| LD50 | Rabbit | 17800 mg/kg |
| Oral | , | |
| LD50 | Rat | 3500 mg/kg |
| N-BUTANE (CAS 106-97-8) | · · · · · | ooo mang |
| Acute | | |
| <u>Acute</u> Inhalation | | |
| LC50 | Mouse | 680 mg/l, 2 Hours |
| LOJU | | - |
| N. D.I.T. (1. A.C.T.A.T.) (0. A.C. (1. C.A.C.) | Rat | 658 mg/l, 4 Hours |
| N-BUTYL ACETATE (CAS 12 | (3-86-4) | |
| Acute | | |
| Inhalation | Misternet | 400 |
| LC50 | Wistar rat | 160 mg/l, 4 Hours |
| Oral | 5 . | |
| LD50 | Rat | 14000 mg/kg |
| PROPANE (CAS 74-98-6) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 1442.847 mg/l, 15 Minutes |
| XYLENE (CAS 1330-20-7) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 43 g/kg |
| Inhalation | | |
| LC50 | Mouse | 3907 mg/l, 6 Hours |
| | Rat | 6350 mg/l, 4 Hours |
| Oral | | • |
| LD50 | Mouse | 1590 mg/kg |
| | | g |

Components Species Test Results

Rat

3523 - 8600 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLBENZENE (CAS 100-41-4) TITANIUM DIOXIDE (CAS 13463-67-7)

2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.

XYLENE (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|----------------------|----------------|---|------------------------------|
| 2-PENTANONE (CAS 1 | 07-87-9) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 1190 - 1290 mg/l, 96 hours |
| ACETONE (CAS 67-64- | -1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| ETHYLBENZENE (CAS | 100-41-4) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.37 - 4.4 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours |
| N-BUTYL ACETATE (C | AS 123-86-4) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours |
| TITANIUM DIOXIDE (C. | AS 13463-67-7) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |

Test Results Components Species

XYLENE (CAS 1330-20-7)

Aquatic

LC50 Fish Bluegill (Lepomis macrochirus) 7.711 - 9.591 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| 2-PENTANONE | 0.91 |
|-----------------|------------|
| ACETONE | -0.24 |
| ETHYLBENZENE | 3.15 |
| N-BUTANE | 2.89 |
| N-BUTYL ACETATE | 1.78 |
| PROPANE | 2.36 |
| XYLENE | 3.12 - 3.2 |

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions**

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

14. Transport information

DOT

UN number UN1950

UN proper shipping name

Transport hazard class(es)

UN1950, Aerosols, Flammable

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Special provisions N82 **Packaging exceptions** 306 Packaging non bulk None

Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

^{*} Estimates for product may be based on additional component data not shown.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

UN proper shipping name

Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

Aerosols, Flammable

Environmental hazards

Marine pollutant

No.

EmS

Not available.

Transport in bulk according to

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-PENTANONE (CAS 107-87-9) Listed. **ACETONE (CAS 67-64-1)** Listed. ETHYLBENZENE (CAS 100-41-4) Listed. N-BUTANE (CAS 106-97-8) Listed. N-BUTYL ACETATE (CAS 123-86-4) Listed. PROPANE (CAS 74-98-6)

XYLENE (CAS 1330-20-7)

Listed. Listed.

SARA 304 Emergency release notification

Not regulated.

4

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---------------|-----------------------------------|-----------|--|
| XYLENE | 1330-20-7 | 1 to <5 | |
| ETHYLBENZENE | 100 -4 1- 4 | 0.1 to <1 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ETHYLBENZENE (CAS 100-41-4)

XYLENE (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

ACETONE (CAS 67-64-1)

6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1)

35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1)

6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-PENTANONE (CAS 107-87-9) ACETONE (CAS 67-64-1) N-BUTYL ACETATE (CAS 123-86-4) Low priority Low priority Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

Material name: ORANGE IF-7630 101219-00-093

sps us 11 / 13

US. New Jersey Worker and Community Right-to-Know Act

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Rhode Island RTK

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

XYLENE (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHYLBENZENE (CAS 100-41-4)

Listed: June 11, 2004

TITANIUM DIOXIDE (CAS 13463-67-7)

Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) Listed: June 15, 2001

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

Issue date

01-25-2017

Version #

01

HMIS® ratings

Health: 2*

Flammability: 4 Physical hazard: 0

Material name: ORANGE IF-7630 101219-00-093

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NFPA ratings

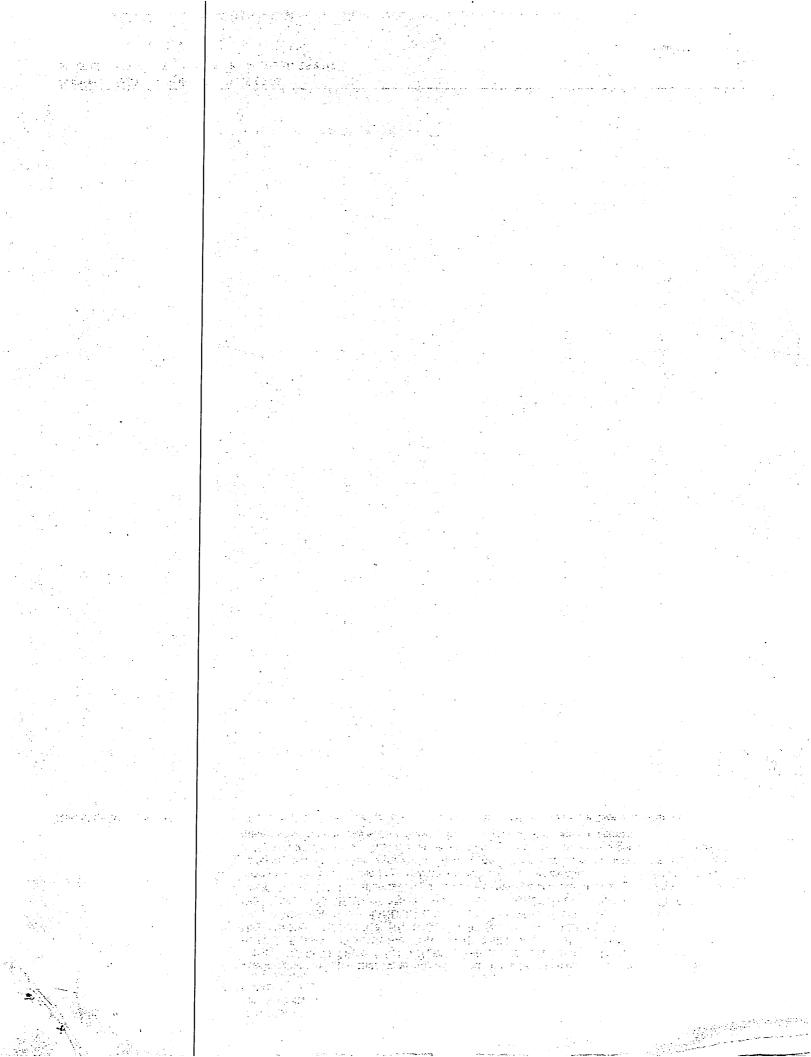
Health: 2 Flammability: 4 Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.



QUEST INDUSTRIAL PRODUCTS

SAFETY DATA SHEET

1. Identification

Product identifier METALLIC SILVER 101219-00-349..

Other means of identification

Product Code 62285 703495 406

Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Company name Quest Industrial Products, LLC.
Address Quest Industrial Products, LLC.
N92 W14701 Anthony Avenue

Menomonee Falls, WI 53051

United States

Telephone General Assistance

eneral Assistance (262) 255-9500

Website quest-ip.com E-mail info@quest-ip.com

Emergency phone number Chemtrec Phone 800-424-9300

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 2

Gases under pressure Liquefied gas

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed.

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child. May cause damage to organs through

prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or applications are the product. Here only product the on

smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If

inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison

center/doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash

before reuse. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from Storage

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information 40.35% of the mixture consists of component(s) of unknown acute oral toxicity, 83,23% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 83.23%

of the mixture consists of component(s) of unknown long-term hazards to the aquatic

environment.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|------------|-----------|
| ACETONE | | 67-64-1 | 30 to <40 |
| PROPANE | | 74-98-6 | 10 to <20 |
| TOLUENE | | 108-88-3 | 10 to <20 |
| METHYL ETHYL KETONE | | 78-93-3 | 5 to <10 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 5 to <10 |
| ALUMINUM | | 7429-90-5 | 1 to <5 |
| Other components below reportable | levels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs; Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Not likely, due to the form of the product. Rinse mouth. If vomiting occurs, keep head low so that

stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache, Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation, May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

media Specific hazards arising from

the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

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Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move Specific methods containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

General fire hazards Flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Do not taste or swallow, Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air (Components | Туре | Value | Form |
|---|---------------------------|------------|---------------------------------------|
| ACETONE (CAS 67-64-1) | PEL | 2400 mg/m3 | |
| | | 1000 ppm | |
| ALUMINUM (CAS 7429-90-5) | PEL | 5 mg/m3 | Respirable dust. |
| • | | 15 mg/m3 | Total dust. |
| METHYL ETHYL KETONE | PEL | 590 mg/m3 | |
| (CAS 78-93-3) | | • | |
| | | 200 ppm | |
| PROPANE (CAS 74-98-6) | PEL | 1800 mg/m3 | |
| | | 1000 ppm | |
| US. OSHA Table Z-2 (29 CFR 1910. | | | |
| Components | Туре | Value | |
| TOLUENE (CAS 108-88-3) | Ceiling | 300 ppm | |
| | TWA | 200 ppm | |
| US. ACGIH Threshold Limit Values | | • • | |
| Components | Туре | Value | Form |
| ACETONE (CAS 67-64-1) | STEL | 750 ppm | |
| | TWA | 500 ppm | |
| ALUMINUM (CAS | TWA | 1 mg/m3 | Respirable fraction |
| 7429-90-5) | | i mymio | rveshiranie iraciioni |
| METHYL ETHYL KETONE | STEL | 300 ppm | |
| (CAS 78-93-3) | | | |
| | TWA | 200 ppm | |
| N-BUTANE (CAS 106-97-8) | STEL | 1000 ppm | |
| TOLUENE (CAS 108-88-3) | TWA | 20 ppm | |
| US. NIOSH: Pocket Guide to Chemi | ical Hazards | | |
| Components | Туре | Value | Form |
| ACETONE (CAS 67-64-1) | TWA | 590 mg/m3 | |
| | | 250 ppm | |
| ALUMINUM (CAS | TWA | 5 mg/m3 | Respirable. |
| 7429-90-5) | | E maritimo | Malalina Suus |
| | | 5 mg/m3 | Welding fume or pyrophoric powder. |
| | | 10 mg/m3 | Total |
| METHYL ETHYL KETONE | STEL | 885 mg/m3 | 1 0001 |
| (CAS 78-93-3) | | ooo mgmo | |
| | | 300 ppm | |
| | TWA | 590 mg/m3 | |
| | | 200 ppm | |
| N-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 | |
| | | 800 ppm | |
| PROPANE (CAS 74-98-6) | TWA | 1800 mg/m3 | |
| | | 1000 ppm | |
| TOLUENE (CAS 108-88-3) | STEL | 560 mg/m3 | |
| | | 150 ppm | |
| | TWA | 375 mg/m3 | |
| | | 100 ppm | |
| IS Workplace Environmental Expe | osure Level (WEEL) Guides | | |
| | _ | 37.1 | |
| Components | Туре | Value | |

Biological limit values

| .CGIH Biological Exposu components | Value | Determinant | Specimen | Sampling Time |
|---------------------------------------|-----------|------------------------------|------------------------|---------------|
| CETONE (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * |
| METHYL ETHYL KETONE CAS 78-93-3) | 2 mg/l | MEK | Urine | * |
| LUENE (CAS 108-88-3) | 0.3 mg/g | o-Cresol, with hydrolysis | Creatinine in urine | * |
| | 0.03 mg/l | Toluene | Urine | * |
| | 0.02 mg/l | Toluene | Blood | * |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE

(CAS 108-65-6)

Can be absorbed through the skin.

TOLUENE (CAS 108-88-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

TOLUENE (CAS 108-88-3)

Skin designation applies.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier.

Other Wear appropriate chemical resistant clothing.

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an Respiratory protection

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Form Aerosol. Liquefied gas.

Color Not available. Odor Not available. **Odor threshold** Not available. pН Not available.

Melting point/freezing point -305.68 °F (-187.6 °C) estimated Initial boiling point and boiling -43.78 °F (-42.1 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) estimated

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower 1.3 % estimated

(%)

Flammability limit - upper 12.8 % estimated

(%)

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Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 2139.72 hPa estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Decomposition temperature

550 °F (287.78 °C) estimated Not available.

Viscosity

Auto-ignition temperature

Not available.

Other information

Density 6.23 lbs/gal **Explosive properties** Not explosive.

Flammability class Flammable IA estimated **Heat of combustion (NFPA** 29.21 kJ/g estimated

30B)

Oxidizing properties Not oxidizing.

Percent volatile 88.52 Specific gravity 0.75

VOC 4.95 lbs/gal Regulatory

> 3.23 lbs/gal Material 592.9 g/l Regulatory 387.22 g/l Material

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Incompatible materials

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Acids. Strong oxidizing agents. Nitrates. Ammonia. Amines. Isocyanates. Fluorine. Caustics.

Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache, Nausea, vomiting,

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Harmful if swallowed. Narcotic effects. **Acute toxicity**

Components **Species Test Results** ACETONE (CAS 67-64-1) **Acute Dermal LD50** Rabbit > 15800 mg/kg Inhalation LC50 Rat 76 mg/l, 4 Hours Oral LD50 Mouse 3000 mg/kg Rat 5800 mg/kg METHYL ETHYL KETONE (CAS 78-93-3) **Acute Dermal** LD50 Rabbit > 8000 mg/kg Inhalation LC50 Mouse 11000 ppm, 45 Minutes Rat 11700 ppm, 4 Hours Oral LD50 Mouse 670 mg/kg Rat 2300 - 3500 mg/kg N-BUTANE (CAS 106-97-8) **Acute** Inhalation LC50 Mouse 680 mg/l, 2 Hours Rat 658 mg/l, 4 Hours **PROPANE (CAS 74-98-6) Acute** Inhalation LC50 Rat > 1442.847 mg/l, 15 Minutes **TOLUENE (CAS 108-88-3) Acute** Dermal LD50 Rabbit 12124 mg/kg 14.1 ml/kg Inhalation LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours Rat 26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours Oral LD50 Rat 2.6 g/kg * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Document# 23229600

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

TOLUENE (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|--------------------------|------------------|---|------------------------------|
| ACETONE (CAS 67-6 | 64-1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| ALUMINUM (CAS 742 | 29-90-5) | | |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 0.16 mg/l, 96 hours |
| METHYL ETHYL KET | ONE (CAS 78-93-3 |)) | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 4025 - 6440 mg/l, 48 hours |
| Fish | LC50 | Sheepshead minnow (Cyprinodon variegatus) | > 400 mg/l, 96 hours |
| TOLUENE (CAS 108- | 88-3) | | |
| Aquatic | • | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 5.46 - 9.83 mg/l, 48 hours |
| Fish | LC50 | Coho salmon,silver salmon (Oncorhynchus kisutch) | 8.11 mg/l, 96 hours |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| ACETONE | -0.24 |
|---------------------|-------|
| METHYL ETHYL KETONE | 0.29 |
| N-BUTANE | 2.89 |
| PROPANE | 2.36 |
| TOLUENE | 2.73 |

Mobility in soil

No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name Transport hazard class(es) UN1950, Aerosols, Flammable

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

N82 Special provisions 306 Packaging exceptions None Packaging non bulk Packaging bulk None

IATA

UN1950 **UN number**

UN proper shipping name

Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, Flammable, MARINE POLLUTANT

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Marine pollutant Yes

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

Material name: METALLIC SILVER 101219-00-349...



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ACETONE (CAS 67-64-1)

METHYL ETHYL KETONE (CAS 78-93-3)

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TOLUENE (CAS 108-88-3)

Listed.

Listed.

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---------------|------------|-----------|--|
| TOLUENE | 108-88-3 | 10 to <20 | |
| ALUMINUM | 7429-90-5 | 1 to <5 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Nο

TOLUENE (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6)**

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

ACETONE (CAS 67-64-1) 6532 **METHYL ETHYL KETONE (CAS 78-93-3)** 6714 6594 **TOLUENE (CAS 108-88-3)**

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

35 %WV **ACETONE (CAS 67-64-1) METHYL ETHYL KETONE (CAS 78-93-3)** 35 %WV 35 %WV **TOLUENE (CAS 108-88-3)**

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1) 6532 **METHYL ETHYL KETONE (CAS 78-93-3)** 6714 594 **TOLUENE (CAS 108-88-3)**

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ACETONE (CAS 67-64-1) Low priority METHYL ETHYL KETONE (CAS 78-93-3) Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ACETONE (CAS 67-64-1)

ALUMINUM (CAS 7429-90-5)

METHYL ETHYL KETONE (CAS 78-93-3)

N-BUTANE (CAS 106-97-8) **TOLUENE (CAS 108-88-3)**

US. Massachusetts RTK - Substance List

ACETONE (CAS 67-64-1)

ALUMINUM (CAS 7429-90-5)

METHYL ETHYL KETONE (CAS 78-93-3)

N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6)**

TOLUENE (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act

ACETONE (CAS 67-64-1) ALUMINUM (CAS 7429-90-5)

METHYL ETHYL KETONE (CAS 78-93-3)

N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6)**

TOLUENE (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law

ACETONE (CAS 67-64-1) ALUMINUM (CAS 7429-90-5)

Material name: METALLIC SILVER 101219-00-349...

METHYL ETHYL KETONE (CAS 78-93-3)

N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6) TOLUENE (CAS 108-88-3)**

US. Rhode Island RTK

ACETONE (CAS 67-64-1) ALUMINUM (CAS 7429-90-5)

METHYL ETHYL KETONE (CAS 78-93-3)

N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6) TOLUENE (CAS 108-88-3)**

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

4-Methyl-2-pentanone (CAS 108-10-1) Listed: November 4, 2011 **CARBON BLACK (CAS 1333-86-4)** Listed: February 21, 2003 ETHYL ALCOHOL (CAS 64-17-5) Listed: April 29, 2011

Listed: July 1, 1988

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004

US - California Proposition 65 - CRT: Listed date/Developmental toxin

4-Methyl-2-pentanone (CAS 108-10-1) Listed: March 28, 2014 ETHYL ALCOHOL (CAS 64-17-5) Listed: October 1, 1987 METHANOL (CAS 67-56-1) Listed: March 16, 2012 Listed: January 1, 1991 **TOLUENE (CAS 108-88-3)**

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin **TOLUENE (CAS 108-88-3)** Listed: August 7, 2009

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 01-13-2017 01-20-2017 **Revision date**

Version # 02

Health: 2* **HMIS®** ratings

Flammability: 3 Physical hazard: 0

Health: 2 **NFPA** ratings

Flammability: 3 Instability: 0

Material name: METALLIC SILVER 101219-00-349..

SDS US

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.

Revision information

Exposure controls/personal protection: Respiratory protection Stability and reactivity: Possibility of hazardous reactions

Other information, including date of preparation or last revision: Disclaimer

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QUEST INDUSTRIAL PRODUCTS

SAFETY DATA SHEET

1. Identification

Product identifier YELLOW IF-7628M 101219-00-007

Other means of identification

Product Code 62285 033293 406

Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Company name Quest Industrial Products, LLC.
Address Quest Industrial Products, LLC.
N92 W14701 Anthony Avenue

Menomonee Falls. WI 53051

United States

Telephone General Assistance

eral Assistance (262) 255-9500

Website quest-ip.com
E-mail info@quest-ip.com

Emergency phone number Chemtrec Phone 800-424-9300

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas
Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2

Carcinogenicity Category 2
Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Category 1
te Category 3

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements

Health hazards



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable Response

for breathing. If in eyes: Rinse cautiously with water for several minutes, Remove contact lenses.

if present and easy to do. Continue rinsing. If exposed or concerned: Get medical

advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Disposal

Hazard(s) not otherwise classified (HNOC)

Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

Supplemental information 86.78% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 86.78% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|------------|-----------|
| ACETONE | | 67-64-1 | 30 to <40 |
| PROPANE | | 74-98-6 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| N-BUTYL ACETATE | | 123-86-4 | 5 to <10 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 5 to <10 |
| 2-PENTANONE | | 107-87-9 | 1 to <5 |
| TITANIUM DIOXIDE | | 13463-67-7 | 1 to <5 |
| ETHYLBENZENE | | 100-41-4 | 0.1 to <1 |
| Other components below reportable | levels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or

poison control center. Rinse mouth.

Most important symptoms/effects, acute and

delayed

Ingestion

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air Components | Contaminants (29 CFR 1910.1000) Type | Value | Form |
|--|---|-------------|-------------|
| 2-PENTANONE (CAS 107-87-9) | PEL | 700 mg/m3 | |
| · | | 200 ppm | |
| ACETONE (CAS 67-64-1) | PEL | 2400 mg/m3 | |
| | | 1000 ppm | |
| ETHYLBENZENE (CAS 100-41-4) | PEL | 435 mg/m3 | |
| N. DUTY. ACETATE (CAC | | 100 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | PEL | 710 mg/m3 | |
| · | | 150 ppm | |
| PROPANE (CAS 74-98-6) | PEL | 1800 mg/m3 | |
| | | 1000 ppm | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | PEL | 15 mg/m3 | Total dust. |
| US. ACGIH Threshold Limit Values | ; | | |
| Components | Туре | Value | |
| 2-PENTANONE (CAS 107-87-9) | STEL | 150 ppm | |
| ACETONE (CAS 67-64-1) | STEL | 750 ppm | |
| | TWA | 500 ppm | |
| ETHYLBENZENE (CAS | TWA | 20 ppm | |
| 100-41-4) | | 20 ppm | |
| N-BUTANE (CAS 106-97-8) | STEL | 1000 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 200 ppm | |
| 125-00-4) | TWA | 150 ppm | |
| TITANIUM DIOXIDE (CAS | TWA | 10 mg/m3 | |
| 13463-67-7) | | io iligilio | |
| US. NIOSH: Pocket Guide to Chem | ical Hazards | | |
| Components | Туре | Value | |
| 2-PENTANONE (CAS | TWA | 530 mg/m3 | |
| 107-87-9) | | | |
| 10FT0NF (010 07 01 1) | | 150 ppm | |
| ACETONE (CAS 67-64-1) | TWA | 590 mg/m3 | |
| ETING DENZENE (OAO | 0751 | 250 ppm | |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 545 mg/m3 | |
| • | | 125 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| N-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 | |
| | | 800 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 950 mg/m3 | |
| • | | 200 ppm | |
| | TWA | 710 mg/m3 | |
| | | 150 ppm | |
| PROPANE (CAS 74-98-6) | TWA | 1800 mg/m3 | |
| | | 1000 ppm | |
| US. Workplace Environmental Exp | osure Level (WEEL) Guides | | |
| Components | Туре | Value | |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | TWA | 50 ppm | |
| (CAS 108-65-6) | | | |

Biological limit values

| ACGIH Biological Exposu | Value | Determinant | Specimen | Sampling Time | |
|--------------------------------|----------|---|---------------------|---------------|--|
| ACETONE (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * | |
| ETHYLBENZENE (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * | |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE

Can be absorbed through the skin.

Appropriate engineering

(CAS 108-65-6)

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation. or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating,

drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Aerosol. Liquefied gas.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

pН

Not available.

Melting point/freezing point

-305.68 °F (-187.6 °C) estimated

Initial boiling point and boiling

-43.78 °F (-42.1 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) estimated Not available.

Evaporation rate

Not applicable.

Flammability (solid, gas)

Upper/lower flammability or explosive limits Flammability limit - lower

1.9 % estimated

(%)

Flammability limit - upper

12.8 % estimated

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

2340.23 hPa estimated

Material name: YELLOW IF-7628M 101219-00-007 62285 033293 406 Version #: 01 Issue date: 01-20-2017 Vapor density Relative density Not available. Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

550 °F (287.78 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Density Explosive properties 6.42 lbs/gal Not explosive.

Flammability class

Flammable IA estimated

Heat of combustion (NFPA

26.78 kJ/g estimated

30B)

Oxidizing properties

Not oxidizing.

Percent volatile

81.71

Specific gravity

0.77

VOC

4.49 lbs/gal Regulatory 345.99 g/l Material 2.89 lbs/gal Material 538.6 g/l Regulatory

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Incompatible materials

Strong acids. Acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

toxicological characteristics

cause redness and pain.

Information on toxicological effects

Acute toxicity

Narcotic effects.

Components

Species

Test Results

2-PENTANONE (CAS 107-87-9)

Acute

Oral

LD50

Rat

3.73 g/kg

| • | | |
|-----------------------------------|--|-----------------------------|
| Components | Species | Test Results |
| ACETONE (CAS 67-64-1) | *** | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 15800 mg/kg |
| Inhalation | | |
| LC50 | Rat | 76 mg/l, 4 Hours |
| Oral | | |
| LD50 | Mouse | 3000 mg/kg |
| | Rat | 5800 mg/kg |
| ETHYLBENZENE (CAS 100-41- | 4) | |
| Acute | | |
| Dermal | D-11-2 | 47000 8 |
| LD50 | Rabbit | 17800 mg/kg |
| Oral | D-4 | 2502 4 |
| LD50 | Rat | 3500 mg/kg |
| N-BUTANE (CAS 106-97-8) | | |
| Acute | | |
| Inhalation LC50 | Mouse | 680 mg/l, 2 Hours |
| EC30 | Rat | 658 mg/l, 4 Hours |
| N DUTY AGETATE (040 400 | | oso nigh, 4 nouis |
| N-BUTYL ACETATE (CAS 123- | 86-4) | |
| <u>Acute</u> Inhalation | | |
| LC50 | Wistar rat | 160 mg/l, 4 Hours |
| Oral | Wistar rat | 100 mg/l, 4 mours |
| LD50 | Rat | 14000 mg/kg |
| PROPANE (CAS 74-98-6) | Nat | 14000 mg/kg |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 1442.847 mg/l, 15 Minutes |
| | | - |
| | be based on additional component data not show | wn. |
| Skin corrosion/irritation | Causes skin irritation. | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |
| Respiratory or skin sensitizati | ion | |

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLBENZENE (CAS 100-41-4) TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

May cause drowsiness and dizziness.

single exposure

Reproductive toxicity

Document #23852300

Specific target organ toxicity -

Causes damage to organs through prolonged or repeated exposure.

repeated exposure

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|--------------------|-----------------|---|------------------------------|
| 2-PENTANONE (CAS | 107-87-9) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 1190 - 1290 mg/l, 96 hours |
| ACETONE (CAS 67-6 | 4-1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| ETHYLBENZENE (CA | S 100-41-4) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.37 - 4.4 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours |
| N-BUTYL ACETATE (| CAS 123-86-4) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours |
| TITANIUM DIOXIDE (| CAS 13463-67-7) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

| Partition coefficient | n-octanol | / water (| log K | (wo |
|-----------------------|-----------|-----------|-------|-----|
|-----------------------|-----------|-----------|-------|-----|

| 0.91 |
|-------|
| -0.24 |
| 3.15 |
| 2.89 |
| 1.78 |
| 2.36 |
| |

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispo

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

 Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name

UN1950, Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82 306 Packaging exceptions Packaging non bulk None Packaging bulk None

IATA

UN1950 **UN number**

UN proper shipping name Transport hazard class(es) Aerosols, Flammable

Class 2.1

Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN1950

UN proper shipping name

Aerosols, Flammable

Transport hazard class(es) Class

2.1 Subsidiary risk Label(s) 2.1

Packing group

Not applicable.

Environmental hazards

Marine pollutant

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

DOT





General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

 2-PENTANONE (CAS 107-87-9)
 Listed.

 ACETONE (CAS 67-64-1)
 Listed.

 ETHYLBENZENE (CAS 100-41-4)
 Listed.

 N-BUTANE (CAS 106-97-8)
 Listed.

 N-BUTYL ACETATE (CAS 123-86-4)
 Listed.

 PROPANE (CAS 74-98-6)
 Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.ETHYLBENZENE100-41-40.1 to <1</td>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ETHYLBENZENE (CAS 100-41-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

ACETONE (CAS 67-64-1)

6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1)

35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1)

6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-PENTANONE (CAS 107-87-9) Low priority
ACETONE (CAS 67-64-1) Low priority
N-BUTYL ACETATE (CAS 123-86-4) Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

US. Massachusetts RTK - Substance List

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

US. Rhode Island RTK

ACETONE (CAS 67-64-1)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (CAS 1333-86-4)
ETHYLBENZENE (CAS 100-41-4)
SILICA, CRYSTALLINE QUARTZ (CAS 14808-60-7)
Listed: June 11, 2004
Listed: October 1, 1988
Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) Listed: June 15, 2001

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |

 SDS US

| Canada | Non-Domestic Substances List (NDSL) | No |
|-------------|--|-----|
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances | Yes |

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Inventory name

Yes

On inventory (yes/no)*

16. Other information, including date of preparation or last revision

Issue date

01-20-2017

Version #

01

HMIS® ratings

Country(s) or region

Health: 2* Flammability: 4

Physical hazard: 0

NFPA ratings

Health: 2 Flammability: 4 Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.

Revision information

Hazard(s) identification: Hazard statement Hazard(s) identification: Prevention Hazard(s) identification: Response

Composition/information on ingredients: Component information

Fire-fighting measures: General fire hazards

Exposure controls/personal protection: Respiratory protection Stability and reactivity: Possibility of hazardous reactions

Toxicological information: Carcinogenicity Regulatory information: California Prop 65

Other information, including date of preparation or last revision: Disclaimer

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SAFETY DATA SHEET

1. Identification

Product identifier RUST RESISTANT GRAY PRIMER 101260-00-000

Other means of identification

62285 044967 406 **Product Code**

Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Quest Industrial Products, LLC. Company name **Address** N92 W14701 Anthony Avenue

Menomonee Falls, WI 53051

United States

Telephone General Assistance

(262) 255-9500

Website quest-ip.com E-mail info@quest-ip.com

Chemtrec Phone 800-424-9300 **Emergency phone number**

2. Hazard(s) identification

Flammable aerosols Category 1 Physical hazards

> Gases under pressure Liquefied gas

Category 2A Health hazards Serious eye damage/eye irritation

> Carcinogenicity Category 2 Category 2 Reproductive toxicity

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes

serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through

Category 2

prolonged or repeated exposure.

Precautionary statement

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn. even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face

protection.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned; Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from Storage

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Material name: RUST RESISTANT GRAY PRIMER 101260-00-000

62285 044967 406 Version #: 06 Revision date: 01-25-2017 Issue date: 04-21-2015

THE PROPERTY OF THE PROPERTY O त्रामानक के किया है। या अधिक के किया के किया है कि किया है। इस के किया किया के किया किया किया किया किया कि The same of the same gordik samastsis iligi kakemis dita Andreas Angeles and the second se Second 。斯特·奇斯 19 के के स्वाप्त कर है। जिसके के अपने के लिए हैं के किया के लिए के किया की किया है। ្រូវបានក្រុមស្រីមក មហិស្ត Consideration of the final section of the section o rapid dinik organization di 19年,伊萨马马特。 经国际 电极电极性 医电路 ही बुद्धारी पर भी वर्ष होते होता है। सुरा हा स्टू James In the and the state of the contraction of the state of the stat दुर्भ्यात प्रकार , ब्रह्मकर्षे \$ (6.7 mm) **为自己的自己是自己的自己的** वे कृष्ट - नवस्तु स्थितः इतिहरू error Syrver Frank Town Land Seale **在大学的大学的大学** दुर्भुग्रह् 100 aretalera. julian Allenia Control of the Contro Property of the control of the contr रा स्थ्रीयहरू । राज्या purchasing a compagnitive ार्गेष्ट्रकार । विदेशहरी Commence (British Sp. **经特别。在特别中的工厂专项的企业的是专项的工具专用的**

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|-----------|
| ACETONE | | 67-64-1 | 40 to <50 |
| PROPANE | | 74-98-6 | 10 to <20 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| ISOBUTYL ACETATE | | 110-19-0 | 1 to <5 |
| ISOBUTYL ALCOHOL | | 78-83-1 | 1 to <5 |
| ISOPROPANOL | | 67-63-0 | 1 to <5 |
| TITANIUM DIOXIDE | | 13463-67-7 | 1 to <5 |
| TOLUENE | | 108-88-3 | 1 to <5 |
| Other components below reportable le | evels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or Ingestion poison control center. Rinse mouth.

May cause drowsiness and dizziness. Headache, Nausea, vomiting, Severe eve irritation. Most important Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged symptoms/effects, acute and exposure may cause chronic effects. delaved

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with

Fire fighting

equipment/instructions

Specific methods

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire. ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire

burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

Material name: RUST RESISTANT GRAY PRIMER 101260-00-000

62285 044967 406 Version #: 06 Revision date: 01-25-2017 Issue date: 04-21-2015

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general property

ริบารศึกษาตร กระไรเป็น ประชาชาติสารศาสตร์ Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage: do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| Components | Туре | Value | Form |
|------------------------------------|------|------------|------|
| ACETONE (CAS 67-64-1) | PEL | 2400 mg/m3 | |
| | | 1000 ppm | |
| ISOBUTYL ACETATE (CAS 110-19-0) | PEL | 700 mg/m3 | |
| · | | 150 ppm | |

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> ુરાં કર્યું કર્યા છે. કર્યા કર્યું ભાગ કર્યું કે માન કરા કર્યું કરાયો કરાયો ભાગ જન્મ ભાગ કર્યો કો કે કરાયા માણ ત્રિકાર્યા માને કરાયા કર્યા કુલ્લાના કુલ્લાના કર્યા કર્યા કર્યા માલાક જન્મ ભાગ કુલાયા કર્યો કો કે કરાયા માણાક

Barrier Committee

| US. OSHA Table Z-1 Limits for Air (Components | Type | Value | Form |
|---|---------|----------------------|-------------|
| SOBUTYL ALCOHOL CAS 78-83-1) | PEL | 300 mg/m3 | |
| | | 100 ppm | |
| SOPROPANOL (CAS 17-63-0) | PEL | 980 mg/m3 | |
| 7-00-0) | | 400 ppm | |
| PROPANE (CAS 74-98-6) | PEL | 1800 mg/m3 | |
| , | | 1000 ppm | |
| ITANIUM DIOXIDE (CAS 3463-67-7) | PEL | 15 mg/m3 | Total dust. |
| IS. OSHA Table Z-2 (29 CFR 1910.1 | 1000) | | |
| omponents | Туре | Value | |
| OLUENE (CAS 108-88-3) | Ceiling | 300 ppm | |
| | TWA | 200 ppm | |
| S. ACGIH Threshold Limit Values | | | |
| omponents | Туре | Value | |
| CETONE (CAS 67-64-1) | STEL | 750 ppm | |
| , | TWA | 500 ppm | |
| SOBUTYL ACETATE (CAS | TWA | 150 ppm | |
| 10-19-0) SOBUTYL ALCOHOL | TWA | 50 ppm | |
| CAS 78-83-1) | | | |
| SOPROPANOL (CAS | STEL | 400 ppm | |
| 7-63-0) | TWA | 200 ppm | |
| -BUTANE (CAS 106-97-8) | STEL | 1000 ppm | |
| ITANIUM DIOXIDE (CAS | TWA | 10 mg/m3 | |
| 3463-67-7) | | • | |
| OLUENE (CAS 108-88-3) | TWA | 20 ppm | |
| S. NIOSH: Pocket Guide to Chemi | | | |
| omponents | Туре | Value | |
| CETONE (CAS 67-64-1) | TWA | 590 mg/m3 | |
| | | 250 ppm | |
| SOBUTYL ACETATE (CAS 10-19-0) | TWA | 700 mg/m3 | |
| | | 150 ppm | |
| SOBUTYL ALCOHOL | TWA | 150 mg/m3 | |
| CAS 78-83-1) | | E0 nn | |
| SOPROPANOL (CAS | STEL | 50 ppm 1225 mg/m3 | |
| 7-63-0) | SIEL | 1223 1119/1113 | |
| • | | 500 ppm | |
| | TWA | 980 mg/m3 | |
| | | 400 ppm | |
| I-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 | |
| NEODANE (OA O TA OO T | | 800 ppm | |
| ROPANE (CAS 74-98-6) | TWA | 1800 mg/m3 | |
| OLLIENE (CAS 100 00 2) | STEI | 1000 ppm | |
| OLUENE (CAS 108-88-3) | STEL | 560 mg/m3 | |
| | TWA | 150 ppm 375 mg/m3 | |
| | 1 440 | 100 ppm | |
| | | 100 ppm | |

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US. Workplace Environmental Exposure Level (WEEL) Guides

 Components
 Type
 Value

 PROPYLENE GLYCOL
 TWA
 50 ppm

METHYL ETHER ACETATE (CAS 108-65-6)

Biological limit values

| Components | Value | Determinant | Specimen | Sampling Time | |
|------------------------------|-----------|------------------------------|---------------------|---------------|--|
| ACETONE (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * | |
| ISOPROPANOL (CAS 67-63-0) | 40 mg/l | Acetone | Urine | * | |
| TOLUENE (CAS 108-88-3) | 0.3 mg/g | o-Cresol, with hydrolysis | Creatinine in urine | * | |
| | 0.03 mg/l | Toluene | Urine | * | |
| | 0.02 mg/l | Toluene | Blood | * | |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE

E C

Can be absorbed through the skin.

(CAS 108-65-6)

TOLUENE (CAS 108-88-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

TOLUENE (CAS 108-88-3)

Skin designation applies.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide evewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Aerosol. Liquefied gas.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

рH

Not available.

Melting point/freezing point

-305.68 °F (-187.6 °C) estimated

Initial boiling point and boiling

-43.78 °F (-42.1 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) estimated

Evaporation rate Flammability (solid, gas)

Not available. Not applicable.

Material name: RUST RESISTANT GRAY PRIMER 101260-00-000

62285 044967 406 Version #: 06 Revision date: 01-25-2017 Issue date: 04-21-2015

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Upper/lower flammability or explosive limits

Flammability limit - lower

1.9 % estimated

(%)

Flammability limit - upper

12.8 % estimated

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure

2426.35 hPa estimated

Vapor density Relative density Not available.

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

550 °F (287.78 °C) estimated

Decomposition temperature Viscosity

Not available. Not available.

Other information

Density Explosive properties 6.57 lbs/gal Not explosive.

Flammability class **Heat of combustion (NFPA** Flammable IA estimated 27.15 kJ/g estimated

30B)

Oxidizing properties

Not oxidizing.

Percent volatile 85.29 Specific gravity 0.79

VOC

351.33 g/l Material

4.94 lbs/gal Regulatory 591.76 g/l Regulatory 2.93 lbs/gal Material

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Incompatible materials Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache, Nausea, vomiting, Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity Narcotic effects.

Material name: RUST RESISTANT GRAY PRIMER 101260-00-000

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या तो प्रकृति विक्रिक्त के ए अर्थुयो अर्थुन्य प्रता अर्थे Components **Test Results Species ACETONE (CAS 67-64-1) Acute** Dermal LD50 Rabbit > 15800 mg/kg Inhalation LC50 Rat 76 mg/l, 4 Hours Oral LD50 Mouse 3000 mg/kg 5800 mg/kg Rat ISOBUTYL ACETATE (CAS 110-19-0) **Acute** Oral LD50 Rabbit 4.8 g/kg ISOBUTYL ALCOHOL (CAS 78-83-1) **Acute Dermal** Rabbit LD50 3392 mg/kg Inhalation 8000 ppm, 4 Hours LC50 Rat 19.9 mg/l LD50 Guinea pig Rabbit 26.25 mg/l 19.2 mg/l Rat Oral LD50 Mouse 3500 mg/kg Rat 2.46 g/kg ISOPROPANOL (CAS 67-63-0) **Acute Dermal** LD50 Rabbit 12800 mg/kg Oral LD50 Mouse 3600 mg/kg Rabbit 5.03 g/kg Rat 4.7 g/kg N-BUTANE (CAS 106-97-8) **Acute** Inhalation LC50 Mouse 680 mg/l, 2 Hours Rat 658 mg/l, 4 Hours **PROPANE (CAS 74-98-6) Acute** Inhalation LC50 Rat > 1442.847 mg/l, 15 Minutes **TOLUENE (CAS 108-88-3)** Acute **Dermal** LD50 Rabbit 12124 mg/kg 14.1 ml/kg

Inhalation LC50

5320 ppm, 8 Hours

Mouse

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| Components | Species | Test Results |
|------------|---------|--------------------|
| | | 400 ppm, 24 Hours |
| | Rat | 26700 ppm, 1 Hours |
| | | 12200 ppm, 2 Hours |
| | | 8000 ppm, 4 Hours |
| Oral | | |
| LD50 | Rat | 2.6 g/kg |

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

TITANIUM DIOXIDE (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

TOLUENE (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

May cause damage to organs through prolonged or repeated exposure.

repeated exposure

Aspiration hazard

Not an aspiration hazard.

Chronic effects

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results |
|--------------------|-----------------|---|------------------------------|
| ACETONE (CAS 67-64 | 4-1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| ISOBUTYL ALCOHOL | . (CAS 78-83-1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 950 - 1200 mg/l, 48 hours |
| Fish | LC50 | Bleak (Alburnus alburnus) | 1000 - 3000 mg/l, 96 hours |
| ISOPROPANOL (CAS | 67-63-0) | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 1400 mg/l, 96 hours |
| TITANIUM DIOXIDE (| CAS 13463-67-7) | | |
| Aquatic | · | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |

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| Components | | Species | Test Results |
|-------------------|-------|--|----------------------------|
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |
| TOLUENE (CAS 108- | 88-3) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 5.46 - 9.83 mg/l, 48 hours |
| Fish | LC50 | Coho salmon,silver salmon (Oncorhynchus kisutch) | 8.11 mg/l, 96 hours |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

| ACETONE | -0.24 |
|------------------|-------|
| ISOBUTYL ACETATE | 1.78 |
| ISOBUTYL ALCOHOL | 0.76 |
| ISOPROPANOL | 0.05 |
| N-BUTANE | 2.89 |
| PROPANE | 2.36 |
| TOLUENE | 2.73 |

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name

UN1950, Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, Flammable

Transport hazard class(es)

Acrosois, Flaminable

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

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Environmental hazards

No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number

UN1950

Aerosols, Flammable

UN proper shipping name Transport hazard class(es)

21

Class Subsidiary risk

Label(s)

2.1

Packing group

Environmental hazards

Marine pollutant

No.

EmS

Not available.

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

the IBC Code

DOT



IATA: IMDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ACETONE (CAS 67-64-1)

Listed.

ISOBUTYL ACETATE (CAS 110-19-0) ISOBUTYL ALCOHOL (CAS 78-83-1)

Listed.

Material name: RUST RESISTANT GRAY PRIMER 101260-00-000

Listed.

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 ISOPROPANOL (CAS 67-63-0)
 Listed.

 N-BUTANE (CAS 106-97-8)
 Listed.

 PROPANE (CAS 74-98-6)
 Listed.

 TOLUENE (CAS 108-88-3)
 Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---------------|------------|----------|---|
| ISOPROPANOL | 67-63-0 | 1 to <5 | - |
| TOLUENE | 108-88-3 | 1 to <5 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

TOLUENE (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

ACETONE (CAS 67-64-1) 6532 TOLUENE (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1) 35 %WV TOLUENE (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1) 6532 TOLUENE (CAS 108-88-3) 594

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ACETONE (CAS 67-64-1)

ISOBUTYL ACETATE (CAS 110-19-0)

ISOBUTYL ALCOHOL (CAS 78-83-1)

Low priority

ISOPROPANOL (CAS 67-63-0)

Low priority

Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ACETONE (CAS 67-64-1) ISOPROPANOL (CAS 67-63-0)

N-BUTANE (CAS 106-97-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

TOLUENE (CAS 108-88-3)

US. Massachusetts RTK - Substance List

ACETONE (CAS 67-64-1)

ISOBUTYL ACETATE (CAS 110-19-0) ISOBUTYL ALCOHOL (CAS 78-83-1)

Material name: RUST RESISTANT GRAY PRIMER 101260-00-000

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ISOPROPANOL (CAS 67-63-0) N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

TOLUENE (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act

ACETONE (CAS 67-64-1)

ISOBUTYL ACETATE (CAS 110-19-0) ISOBUTYL ALCOHOL (CAS 78-83-1)

ISOPROPANOL (CAS 67-63-0) N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

TOLUENE (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law

ACETONE (CAS 67-64-1)

ISOBUTYL ACETATE (CAS 110-19-0) ISOBUTYL ALCOHOL (CAS 78-83-1) ISOPROPANOL (CAS 67-63-0)

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

TOLUENE (CAS 108-88-3)

US. Rhode Island RTK

ACETONE (CAS 67-64-1)

ISOBUTYL ACETATE (CAS 110-19-0)

ISOBUTYL ALCOHOL (CAS 78-83-1)

ISOPROPANOL (CAS 67-63-0)

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TOLUENE (CAS 108-88-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (CAS 1333-86-4)

Listed: February 21, 2003

TITANIUM DIOXIDE (CAS 13463-67-7)

Listed: September 2, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

TOLUENE (CAS 108-88-3)

Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

TOLUENE (CAS 108-88-3)

Listed: August 7, 2009

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Material name: RUST RESISTANT GRAY PRIMER 101260-00-000

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16. Other information, including date of preparation or last revision

04-21-2015 Issue date **Revision date** 01-25-2017

Version # 06

HMIS® ratings Health: 2*

Flammability: 4 Physical hazard: 0

Health: 2 NFPA ratings

Flammability: 4 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

> available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this

material will infringe any such patents, and for obtaining any required licenses.

Revision information This document has undergone significant changes and should be reviewed in its entirety. right of the part HE SHAPE OF THE SHAPE IN **经联络工作** 1998 : 25° 65°

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SAFETY DATA SHEET

1. Identification

Product identifier

BLUE IF-7348M 101219-00-001..

Other means of identification

Product Code

62285 033297 406

Recommended use

Not available.

Manufacturer/Importer/Supplier/Distributor information

Company name

Quest Industrial Products, LLC. N92 W14701 Anthony Avenue Menomonee Falls, Wi 53051

United States

Telephone

General Assistance

(262) 255-9500

Website E-mail

Address

quest-ip.com

info@quest-ip.com

Emergency phone number

Chemtrec Phone

800-424-9300

2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Health hazards

Gases under pressure

Liquefied gas

Serious eye damage/eye irritation

Category 2A Category 2

Carcinogenicity Reproductive toxicity

Category 2

Category 1

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure **Environmental hazards**

Hazardous to the aquatic environment, acute

Category 2

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

Material name: BLUE IF-7348M 101219-00-001..

62285 033297 406 Version #: 02 Revision date: 01-25-2017 Issue date: 01-13-2017

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

nerwise None known.

Supplemental information

89.27% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 89.27% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------------|--------------------------|-------------|-----------|
| ACETONE | | 67-64-1 | 30 to <40 |
| PROPANE | | 74-98-6 | 10 to <20 |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | | 108-65-6 | 10 to <20 |
| N-BUTANE | | 106-97-8 | 5 to <10 |
| N-BUTYL ACETATE | | 123-86-4 | 5 to <10 |
| 2-PENTANONE | | 107-87-9 | 1 to <5 |
| PHTHALOCYANINE BLUE | | 147-14-8 | 1 to <5 |
| TITANIUM DIOXIDE | | 13463-67-7 | 1 to <5 |
| XYLENE | | 1330-20-7 | 1 to <5 |
| COPPER | | 7440-50-8 | 0.1 to <1 |
| ETHYLBENZENE | | 100-41-4 | 0.1 to <1 |
| Other components below reportable le | vels | | 10 to <20 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or

poison control center. Rinse mouth.

Most important

symptoms/effects, acute and

delayed

media

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged

exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Fire fighting equipment/instructions In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor, Avoid contact with eyes, Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air Components | Contaminants (29 CFR 1910. Type | 1000) Value | Form |
|--|------------------------------------|----------------|----------------|
| 2-PENTANONE (CAS 107-87-9) | PEL | 700 mg/m3 | |
| · | | 200 ppm | |
| ACETONE (CAS 67-64-1) | PEL | 2400 mg/m3 | |
| | | 1000 ppm | |
| COPPER (CAS 7440-50-8) | PEL | 1 mg/m3 | Dust and mist. |
| | | 0.1 mg/m3 | Fume. |
| ETHYLBENZENE (CAS 100-41-4) | PEL | 435 mg/m3 | |
| NI DUTYL ACETATE (CAC | 5 | 100 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | PEL | 710 mg/m3 | |
| 120-00-47 | | 150 ppm | |
| PROPANE (CAS 74-98-6) | PEL | 1800 mg/m3 | |
| , | | 1000 mg/mo | |
| TITANIUM DIOXIDE (CAS | PEL | 15 mg/m3 | Total dust. |
| 13463-67-7) | | g | 10101 4001, |
| XYLENE (CAS 1330-20-7) | PEL | 435 mg/m3 | |
| | | 100 ppm | |
| US. ACGIH Threshold Limit Values | • | | |
| Components | Туре | Value | Form |
| 2-PENTANONE (CAS 107-87-9) | STEL | 150 ppm | |
| ACETONE (CAS 67-64-1) | STEL | 750 ppm | |
| | TWA | 500 ppm | |
| ETHYLBENZENE (CAS 100-41-4) | TWA | 20 ppm | |
| N-BUTANE (CAS 106-97-8) | STEL | 1000 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 200 ppm | |
| | TWA | 150 ppm | |
| PHTHALOCYANINE BLUE (CAS 147-14-8) | TWA | 1 mg/m3 | Dust and mist. |
| | | 0.2 mg/m3 | Fume. |
| TITANIUM DIOXIDE (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| XYLENE (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |
| US. NIOSH: Pocket Guide to Chem | ical Hazards | | |
| Components | Туре | Value | Form |
| 2-PENTANONE (CAS 107-87-9) | TWA | 530 mg/m3 | |
| | | 150 ppm | |
| ACETONE (CAS 67-64-1) | TWA | 590 mg/m3 | |
| OODDED (OAR 7440 50 8) | TIAIA | 250 ppm | Dunt and :!t |
| COPPER (CAS 7440-50-8) | TWA | 1 mg/m3 | Dust and mist. |

| US. NIOSH: Pocket Guide to Chem | ical Hazards | | |
|--|---------------------------|------------|----------------|
| Components | Туре | Value | Form |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 545 mg/m3 | |
| · | | 125 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| N-BUTANE (CAS 106-97-8) | TWA | 1900 mg/m3 | |
| , | | 800 ppm | |
| N-BUTYL ACETATE (CAS 123-86-4) | STEL | 950 mg/m3 | |
| · | | 200 ppm | |
| | TWA | 710 mg/m3 | |
| | | 150 ppm | |
| PHTHALOCYANINE BLUE (CAS 147-14-8) | TWA | 1 mg/m3 | Dust and mist. |
| PROPANE (CÁS 74-98-6) | TWA | 1800 mg/m3 | |
| · | | 1000 ppm | |
| US. Workplace Environmental Exp | osure Level (WEEL) Guides | | |
| Components | Type | Value | |
| PROPYLENE GLYCOL METHYL ETHER ACETATE | TWA | 50 ppm | |

(CAS 108-65-6)

Biological limit values

| ACGIH Biological Exposu Components | re Indices Value | Determinant | Specimen | Sampling Time | |
|------------------------------------|---------------------|---|------------------------|---------------|--|
| ACETONE (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * | |
| ETHYLBENZENE (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | • | |
| XYLENE (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * | |

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Other

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Aerosol. Liquefied gas.

Color Not available. Odor Not available.

Odor threshold Not available. pН Not available.

Melting point/freezing point -305.68 °F (-187.6 °C) estimated Initial boiling point and boiling -43.78 °F (-42.1 °C) estimated

range

-156.0 °F (-104.4 °C) estimated

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

1.4 % estimated

(%)

Flash point

Flammability limit - upper

12.8 % estimated

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 2348.12 hPa estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

550 °F (287.78 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Density 6.42 lbs/gal **Explosive properties** Not explosive.

Flammability class Flammable IA estimated Heat of combustion (NFPA 26.71 kJ/g estimated

30B)

Oxidizing properties Not oxidizing.

Percent volatile 82.77 Specific gravity 0.77

VOC 4.6 lbs/gal Regulatory

> 551.77 g/l Regulatory 2.96 lbs/gal Material 354.46 g/l Material

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong acids. Strong oxidizing agents. Nitrates. Halogens. Fluorine. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause Inhalation

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

toxicological characteristics

Information on toxicological effects

Acute toxicity

Narcotic effects.

Components **Species Test Results**

2-PENTANONE (CAS 107-87-9)

Acute

Oral

LD50

Rat

3.73 g/kg

ACETONE (CAS 67-64-1)

Acute

Dermal

LD50

Rabbit

> 15800 mg/kg

Inhalation

LC50 Rat 76 mg/l, 4 Hours

Oral

LD50

Mouse

3000 mg/kg

Rat

5800 mg/kg

ETHYLBENZENE (CAS 100-41-4)

Acute

Dermal

Rabbit LD50

17800 mg/kg

Oral

LD50

Rat

3500 mg/kg

N-BUTANE (CAS 106-97-8)

Acute

Inhalation

LC50

Mouse

680 mg/l, 2 Hours

Rat

658 mg/l, 4 Hours

N-BUTYL ACETATE (CAS 123-86-4)

Acute

Inhalation

LC50 Wistar rat 160 mg/l, 4 Hours

Oral

LD50 Rat 14000 mg/kg

PROPANE (CAS 74-98-6)

Acute

Inhalation

LC50 Rat > 1442.847 mg/l, 15 Minutes

XYLENE (CAS 1330-20-7)

Acute

Dermal

LD50 Rabbit

> 43 g/kg

Material name: BLUE IF-7348M 101219-00-001...

SDS US 7/13

| Components | Species | Test Results |
|------------|---------|--------------------|
| Inhalation | | |
| LC50 | Mouse | 3907 mg/l, 6 Hours |
| | Rat | 6350 mg/l, 4 Hours |
| Oral | | |
| LD50 | Mouse | 1590 mg/kg |
| | Rat | 3523 - 8600 mg/kg |

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ETHYLBENZENE (CAS 100-41-4) TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

XYLENE (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|---------------------------|-----------|---|--------------------------------|
| 2-PENTANONE (CAS 1 | 107-87-9) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 1190 - 1290 mg/l, 96 hours |
| ACETONE (CAS 67-64 | -1) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| COPPER (CAS 7440-5 | 0-8) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 0.036 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 0.0319 - 0.0544 mg/l, 96 hours |

| Components | | Species | Test Results |
|--------------------|------------------|--------------------------------------|------------------------------|
| ETHYLBENZENE (CA | AS 100-41-4) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 1.37 - 4.4 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.5 - 11 mg/l, 96 hours |
| N-BUTYL ACETATE (| (CAS 123-86-4) | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours |
| TITANIUM DIOXIDE (| (CAS 13463-67-7) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 1000 mg/l, 48 hours |
| Fish | LC50 | Mummichog (Fundulus heteroclitus) | > 1000 mg/l, 96 hours |
| XYLENE (CAS 1330-2 | 20-7) | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7.711 - 9.591 mg/l, 96 hours |
| | | | |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

| Partition coefficient n-octanol / water (log Kow) | |
|---|------------|
| 2-PENTANONE | 0.91 |
| ACETONE | -0.24 |
| ETHYLBENZENE | 3.15 |
| N-BUTANE | 2.89 |
| N-BUTYL ACETATE | 1.78 |
| PROPANE | 2.36 |
| XYLENE | 3.12 - 3.2 |

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number

UN1950

UN proper shipping name

UN1950, Aerosols, Flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

N82

Packaging exceptions

306 None

Packaging non bulk Packaging bulk

None

IATA

UN number

UN1950

UN proper shipping name

Aerosols, Flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk Label(s)

2.1

Packing group

Not applicable.

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Cargo aircraft only

Allowed.

aircraft

Allowed.

IMDG

UN number

UN1950

UN proper shipping name Transport hazard class(es) Aerosols, Flammable

Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

Environmental hazards

Marine pollutant

No.

EmS

Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

the IBC Code

DOT



IATA; IMDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

CERCLA Hazardous Substance List (40 CFR 302.4)

2-PENTANONE (CAS 107-87-9) Listed. Listed. **ACETONE (CAS 67-64-1)** Listed. COPPER (CAS 7440-50-8) Listed. ETHYLBENZENE (CAS 100-41-4) Listed. N-BUTANE (CAS 106-97-8) N-BUTYL ACETATE (CAS 123-86-4) Listed. PHTHALOCYANINE BLUE (CAS 147-14-8) Listed. Listed. PROPANE (CAS 74-98-6) Listed. XYLENE (CAS 1330-20-7)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---------------|------------|-----------|---|
| XYLENE | 1330-20-7 | 1 to <5 | _ |
| COPPER | 7440-50-8 | 0.1 to <1 | |
| ETHYLBENZENE | 100-41-4 | 0.1 to <1 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ETHYLBENZENE (CAS 100-41-4)

XYLENE (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

ACETONE (CAS 67-64-1)

6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

ACETONE (CAS 67-64-1)

35 %WV

DEA Exempt Chemical Mixtures Code Number

ACETONE (CAS 67-64-1)

6532

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-PENTANONE (CAS 107-87-9)

Low priority

Material name: BLUE IF-7348M 101219-00-001...

62285 033297 406 Version #: 02 Revision date: 01-25-2017 Issue date: 01-13-2017

SDS US

Low priority Low priority

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ACETONE (CAS 67-64-1)

COPPER (CAS 7440-50-8)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

COPPER (CAS 7440-50-8)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

COPPER (CAS 7440-50-8)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PHTHALOCYANINE BLUE (CAS 147-14-8)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2-PENTANONE (CAS 107-87-9)

ACETONE (CAS 67-64-1)

COPPER (CAS 7440-50-8)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

US. Rhode Island RTK

ACETONE (CAS 67-64-1)

COPPER (CAS 7440-50-8)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

N-BUTYL ACETATE (CAS 123-86-4)

PROPANE (CAS 74-98-6)

XYLENE (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

US - California Proposition 65 - CRT: Listed date/Developmental toxin

CUMENE (CAS 98-82-8)
ETHYLBENZENE (CAS 100-41-4)
SILICA, CRYSTALLINE QUARTZ (CAS 14808-60-7)
Listed: October 1, 1988

TITANIUM DIOXIDE (CAS 13463-67-7) Listed: September 2, 2011

1-METHYL-2-PYRROLIDONE (CAS 872-50-4) Listed: June 15, 2001

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 01-13-2017 **Revision date** 01-25-2017

Version # 02

United States & Puerto Rico

Health: 2* **HMIS®** ratings

Flammability: 4 Physical hazard: 0

Health: 2 NFPA ratings

> Flammability: 4 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

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Revision information Hazard(s) identification: Hazard statement

> First-aid measures: Eye contact First-aid measures: Skin contact

Fire-fighting measures: Fire fighting equipment/instructions

Fire-fighting measures: Specific methods Fire-fighting measures: General fire hazards

Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities

Exposure controls/personal protection: Respiratory protection

No

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