

This SDS should be attached or kept with the respective product with which it is associated.

SDS - F0150

Associated Items

UPGI
STAY POWERED(R®)

SLA SDS

TRADE NAME: VALVE REGULATED LEAD BATTERY

REVISION DATE: JANUARY 19, 2018

—SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE—
AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER:

1.1.1 TRADE NAME/DESIGNATION: VALVE REGULATED LEAD BATTERY

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

1.2.1 RELEVANT IDENTIFIED USES:

POWER SPORT BATTERIES
GENERAL PURPOSE
DEEP CYCLE
MEDICAL EQUIPMENT
STANDBY APPLICATIONS
SLI

1.2.2 USES ADVISED AGAINST: ANY OTHER NOT LISTED ABOVE

1.3 DETAILS OF THE SUPPLIER:

MANUFACTURED FOR:
UNIVERSAL POWER GROUP, INC.
488 S ROYAL LANE
COPPELL, TX 75019

469-892-1122

WWW.UPGI.COM

1.4 EMERGENCY TELEPHONE NUMBER:

US/CAN: 1-800-424-9300

COUNTRIES OUTSIDE OF US/CAN: 1-703-527-3887

—SECTION 2: HAZARDS IDENTIFICATION—

MATERIAL IS AN ARTICLE. NO HEALTH EFFECTS ARE EXPECTED DURING NORMAL USE OF THIS PRODUCT AS SOLD. HAZARDOUS EXPOSURE MAY OCCUR WHEN THE PRODUCT IS HEATED, OXIDIZED OR OTHERWISE PROCESSED, DAMAGED OR SUBJECTED TO MISUSE. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION, SERVICE AND USE.

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

2.1.1 CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP/GHS):
8B: NON FLAMMABLE CORROSIVE MATERIALS2.1.2 CLASSIFICATION ACCORDING TO 67/548/EEC OR 1999/45/EC:
XI: IRRITATING

2.1.3 CLASSIFICATION ACCORDING TO 29 CFR 1910.1200:

2.2 LABEL ELEMENTS:

2.2.1 LABELING ACCORDING TO GHS:

HEALTH:
EXCLAMATION MARK
CORROSION
HEALTH HAZARD

ENVIRONMENTAL: ENVIRONMENT

PHYSICAL: EXPLODING BOMB

ACUTE TOXICITY (ORAL/DERMAL/INHALATION): CATEGORY 4

SKIN CORROSION/IRRITATION: CATEGORY 1A

EYE DAMAGE: CATEGORY 1

REPRODUCTIVE: CATEGORY 1A

CARCINOGENICITY (LEAD COMPOUNDS): CATEGORY 1B

CARCINOGENICITY (ARSENIC): CATEGORY 1A

CARCINOGENICITY (ACID MIST): CATEGORY 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): CATEGORY 2

AQUATIC CHRONIC: 1

AQUATIC ACUTE: 1

EXPLOSIVE CHEMICAL, DIVISION: 1.3

HAZARD STATEMENTS - DANGER!

NORMAL CONDITIONS:

NO HEALTH EFFECTS ARE EXPECTED. HOWEVER, IRRITATION OR SEVERE BURNS MAY CAUSE IF CONTACT WITH INTERNAL COMPONENTS.

NORMAL CONDITIONS (BROKEN CASE OR EXTREME OVERCHARGING):

INHALATION, MAY CAUSE RESPIRATORY IRRITATION, INFERTILITY, AND CANCER.

SKIN CONTACT WITH SULFURIC ACID, MAY CAUSE SKIN IRRITATION

EYE CONTACT, MAY CAUSE IRRITATION IF EYE EXPOSED TO ACIDIC MIST/DUST.

INGESTION, MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA, SEVERE CRAMPING AND CANCER.

EFFECT OF CHRONIC LEAD EXPOSURE:
CENTRAL NERVOUS SYSTEM (CNS) DAMAGE, KIDNEY DYSFUNCTION, ANEMIA, NEUROPATHY PARTICULAR OF THE MOTOR NERVES WITH WRIST DROP, AND POTENTIAL REPRODUCTIVE EFFECTS.EFFECT OF SULFURIC ACID EXPOSURE:
SEVERE IRRITATION, BURNS AND PERMANENT TISSUE DAMAGE TO ALL ROUTES OF EXPOSURE. CHRONIC EXPOSURE MAY CAUSE EROSION OF TOOTH ENAMEL, INFLAMMATION OF NOSE, THROAT AND RESPIRATORY SYSTEM.

PRECAUTIONARY STATEMENTS:
DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. DO NOT EAT DRINK OR SMOKE WHEN USING THIS PRODUCT. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY CLOSED. AVOID HEAT, SPARKS, AND OPEN FLAME WHILE CHARGING BATTERIES. AVOID BREATHING DUST/FUME/MIST/GAS/VAPORS/SPRAY. AVOID CONTACT WITH INTERNAL ACID. WEAR PROTECTIVE GLOVES, CLOTHING, EYE-WARES, AND FACE-WARES. USE IT ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING.

—SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS—

3.1 DESCRIPTION OF THE MIXTURE:

CAS NO	EC NO	% [WEIGHT]	NAME
7439-92-1	231-100-4	63-78%	LEAD
7664-93-9	231-639-5	10-30%	SULFURIC ACID
7440-36-0	231-146-5	0.2%	ANTIMONY
7440-31-5	231-141-8	0.006%	TIN
7440-38-2	231-148-6	0.003%	ARSENIC
7440-70-2	231-179-5	0.002%	CALCIUM

CASE MATERIAL COMPOSES 5-6% OF THE ARTICLE. CASE MATERIAL INCLUDES THE FOLLOWING COMPONENTS:

1-PROPENE, HOMOPOLYMER (9003-07-0); POLYSTYRENE (9003-53-6); ACRYLONITRILE, POLYMER WITH STYRENE (9003-54-7); ACRYLONITRILE, POLYMER WITH 1,3-BUTADIENE AND STYRENE (9003-56-9); STYRENE POLYMER WITH 1,3-BUTADIENE AND STYRENE (9003-56-9); STYRENE POLYMER WITH 1,3-BUTADIENE (KRATON) (9003-55-8); ETHYLENE, CHLORO-, POLYMER (9003-86-2); HARD RUBBER; POLYCARBONATE; POLYETHYLENE.

—SECTION 4: FIRST AID MEASURES—

4.1 DESCRIPTION OF FIRST AID MEASURES.:

4.1.1 EYE CONTACT:
FIRST AID IS NOT EXPECTED TO BE NECESSARY IF MATERIAL IS USED UNDER ORDINARY CONDITIONS AND AS RECOMMENDED. IF CONTACT WITH MATERIAL OCCURS FLUSH EYES WITH WATER. GET MEDICAL ATTENTION.

4.1.2 INHALATION:
FIRST AID IS NOT EXPECTED TO BE NECESSARY IF MATERIAL IS USED UNDER ORDINARY CONDITIONS AND AS RECOMMENDED. IF SIGNS/SYMPTOMS DEVELOP, MOVE PERSON TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

4.1.3 SKIN CONTACT:
FIRST AID IS NOT EXPECTED TO BE NECESSARY IF MATERIAL IS USED UNDER ORDINARY CONDITIONS AND AS RECOMMENDED. IF EXPOSURE TO ELECTROLYTE (SULFURIC ACID) OCCURS, FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES. IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. IF EXPOSURE TO LEAD COMPONENT OCCURS, WASH CONTAMINATED SKIN WITH PLENTY OF SOAP AND WATER.

4.1.4 INGESTION:
FIRST AID IS NOT EXPECTED TO BE NECESSARY IF MATERIAL IS USED UNDER ORDINARY CONDITIONS AND AS RECOMMENDED. IF ELECTROLYTE (SULFURIC ACID) PORTION OF BATTERY IS INGESTED GIVE LARGE QUANTITIES OF WATER DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION IMMEDIATELY. IF LEAD PORTION OF BATTERY IS INGESTED GET MEDICAL ATTENTION IMMEDIATELY.

4.1.5 SELF-PROTECTION OF THE FIRST AIDER:
IF ARTIFICIAL RESPIRATION IS REQUIRED USE A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE.

—SECTION 5: FIREFIGHTING MEASURES—

5.1 EXTINGUISHING MEDIA:

5.1.1 SUITABLE EXTINGUISHING MEDIA: CO2, DRY CHEMICAL OR FOAM



5.1.2 UNSUITABLE EXTINGUISHING MEDIA: AVOID USING WATER

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

5.2.1 HAZARDOUS COMBUSTION PRODUCTS: LEAD PORTION OF BATTERY WILL LIKELY PRODUCE TOXIC METAL FUME, VAPOR OR DUST.

5.3 ADVICE FOR FIRE-FIGHTERS:

IF BATTERIES ARE ON CHARGE, SHUT OFF POWER. DO NOT ALLOW METALLIC MATERIALS TO CONTACT MULTANEOUSLY CONTACT NEGATIVE AND POSITIVE TERMINALS OF CELLS AND BATTERIES.

WEAR A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA). STRUCTURAL FIRE FIGHTERS' PROTECTIVE CLOTHING WILL ONLY PROVIDE LIMITED PROTECTION.

5.4 ADDITIONAL INFORMATION: HIGHLY FLAMMABLE HYDROGEN GAS IS GENERATED DURING CHARGING AND OPERATION OF BATTERIES. WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPLATTER.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

6.1.1 FOR NON-EMERGENCY PERSONNEL: PROTECTIVE EQUIPMENT: WEAR CHEMICAL GLOVES

6.1.2 FOR EMERGENCY RESPONDERS:

PERSONAL PROTECTIVE EQUIPMENT: WEAR CHEMICAL GLOVES, GOGGLES, ACID RESISTANT CLOTHING AND BOOTS, RESPIRATOR IF INSUFFICIENT VENTILATION.

6.2 ENVIRONMENTAL PRECAUTIONS: PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS. RUNOFF FROM FIRE CONTROL AND DILUTION WATER MAY BE TOXIC AND CORROSIVE AND MAY CAUSE ADVERSE ENVIRONMENTAL IMPACTS.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

6.3.1 FOR CONTAINMENT: IN THE EVENT OF A BATTERY RUPTURING; STOP THE LEAK IF YOU CAN DO IT WITHOUT RISK. ABSORB WITH EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. CAUTIOUSLY NEUTRALIZE SPILLED LIQUID.

6.3.2 FOR CLEANING UP: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND NATIONAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

7.1.1 PROTECTIVE MEASURES: HANDLE BATTERIES CAUTIOUSLY. DO NOT TIP TO AVOID SPILLS (IF FILLED WITH ELECTROLYTE). AVOID CONTACT WITH INTERNAL COMPONENTS. WEAR PROTECTIVE CLOTHING WHEN FILLING OR HANDLING BATTERIES. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND SERVICE. DO NOT ALLOW CONDUCTIVE MATERIAL TO TOUCH THE BATTERY TERMINALS. SHORT CIRCUIT MAY OCCUR AND CAUSE BATTERY FAILURE AND FIRE.

7.1.2 ADVICE ON GENERAL OCCUPATIONAL HYGIENE: WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, OR USING TOBACCO. EYEWASH STATIONS AND SAFETY SHOWERS SHOULD BE PROVIDED WITH UNLIMITED WATER SUPPLY. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

TECHNICAL MEASURES AND STORAGE CONDITIONS: STORE IN A COOL/LOW-TEMPERATURE, WELL-VENTILATED PLACE AWAY FROM HEAT AND IGNITION SOURCES. BATTERIES SHOULD BE STORED UNDER ROOF FOR PROTECTION AGAINST ADVERSE WEATHER CONDITIONS. PLACE CARDBOARD BETWEEN LAYERS OF STACKED BATTERIES TO AVOID DAMAGE AND SHORT CIRCUITS. STORE BATTERIES ON AN IMPERVIOUS SURFACE.

STORAGE CLASS: CLASS 8B: NON-FLAMMABLE CORROSIVE MATERIALS

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

8.1.1 OCCUPATIONAL EXPOSURE LIMITS:

Table with columns: LIMIT VALUE TYPE, SUBSTANCE, EC-NO., CAS-NO, LIMIT VALUE, MONITORING (COUNTRY OF ORIGIN, NAME AND ORIGIN), OBSERVATION AND PROCESSES. Rows include Tin and Antimony exposure limits.

Table with columns: TWA (ACGIH), TWA (NIOSH USA), TWA (OSHA USA), SULFURIC ACID, 231-639-5 7664-93-9, 0.2 MG/M3 FRACTION, THORACIC. Rows include various exposure limits for sulfuric acid.

Table with columns: TWA (ACGIH), TWA (CA ON), TWA (CA QU), STEL (CH), TWA (CH), STEL (F), TWA (F), CEILING (DE), MAK (DE), CEILING (JP), TWA (ME), TWA (NIOSH), TWA (OSHA), LEAD, 231-100-4 7439-92-1, 0.05 MG/M3 DESIGNATED SUBSTANCE, REGULATION, DUST (FUME), MG/M3, DUST (FUME), BILOGICAL LIMIT VALUE, TWA (F), TWA (JP), TWA (ME), TWA (NIOSH), TWA (OSHA). Rows include various exposure limits for lead.

8.2 EXPOSURE CONTROLS:

8.2.1 APPROPRIATE ENGINEERING CONTROLS: STORE AND CHARGE IN A WELL-VENTILATED AREA. GENERAL DILUTION VENTILATION IS ACCEPTABLE.

8.2.2 PERSONAL PROTECTIVE EQUIPMENT:

8.2.2.1 PICTOGRAMS: FACE SHIELD, GLOVES, APRON

8.2.2.2 EYE/FACE PROTECTION: WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES WITH SIDE SHIELDS).

8.2.2.3 SKIN PROTECTION:

WEAR PROTECTIVE GLOVES.

NO SKIN PROTECTION IS ORDINARILY REQUIRED UNDER NORMAL CONDITIONS OF USE. IN ACCORDANCE WITH INDUSTRIAL HYGIENE PRACTICES. IF CONTACT WITH LEAKING BATTERY IS EXPECTED, PRECAUTIONS SHOULD BE TAKEN TO AVOID SKIN CONTACT. UNDER SEVERE EXPOSURE OR EMERGENCY CONDITIONS, WEAR ACID RESISTANT CLOTHING AND BOOTS.

8.2.2.4 RESPIRATORY PROTECTION: IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

9.1.1 APPEARANCE:

PHYSICAL STATE: SOLID

COLOR: CLEAR (ELECTROLYTE)

ODOR: ODORLESS

ODOR THRESHOLD: NO DATA

9.1.2 SAFETY RELEVANT BASIC DATA:

PH (20 DEG. C): NO DATA

MELTING POINT/RANGE (DEG. C): NO DATA

INITIAL BOILING POINT/RANGE (DEG. C): 95-95.555

DECOMPOSITION TEMPERATURE (DEG. C): NO DATA

FLASH POINT (DEG. C): NO DATA

EVAPORATION RATE: NOT APPLICABLE

LOWER EXPLOSIVE LIMIT: 4.1% (HYDROGEN)

UPPER EXPLOSIVE LIMIT: 74.2% (HYDROGEN)

IGNITION TEMPERATURE (DEG. C): NO DATA.

VAPOR PRESSURE (HPA): 10 MMHg.

VAPOR DENSITY (AIR = 1): 1

DENSITY (G/CM3) AT DEG. C: 75.8523-84.2803 LBS/FT3.

BULK DENSITY (KG/M3): NO DATA.

WATER SOLUBILITY (20 DEG. C IN G/L): 100%



SOLUBILITY (IES): NO DATA.
PARTITION COEFFICIENT: NO DATA.
N-OCTANOL/WATER (LOGPO/W): NO DATA.
VISCOSITY, DYNAMIC (MPA S): NO DATA.

9.1.3 PHYSICAL HAZARDS:
FLAMMABLE GASES,
METAL CORROSION.

5. OTHER SAFETY INFORMATION:

PROPERTIES OF EXPLOSIVE ATMOSPHERES (MIXTURES):

GASES AND VAPORS: NO DATA.

DUSTS: NO DATA.

PHYSICAL CHEMICAL PROPERTIES OF NANOPARTICLES: NO DATA.

LIMITING OXYGEN CONCENTRATION: NO DATA.

BULK DENSITY: NO DATA.

SOLUBILITY IN DIFFERENT MEDIA: NO DATA.

STABILITY IN ORGANIC SOLVENTS AND IDENTITY OF RELEVANT DEGRADATION PRODUCTS: NO DATA.

EVAPORATION RATE: NO DATA.

CONDUCTIVITY: NO DATA.

SURFACE TENSION: NO DATA.

DISSOCIATION CONSTANT IN WATER (PKA): NO DATA.

OXIDATION-REDUCTION POTENTIAL: NO DATA.

FAT SOLUBILITY (SOLVENT - OIL TO BE SPECIFIED): NO DATA.

CRITICAL TEMPERATURE: NO DATA.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY: NOT REACTIVE

10.2 CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

10.4 CONDITIONS TO AVOID: PROLONGED OVERCHARGE, SOURCES OF IGNITION.

10.5 INCOMPATIBLE MATERIALS:

SULFURIC ACID:
CONTACT WITH COMBUSTIBLE AND ORGANIC MATERIALS MAY CAUSE FIRE AND EXPLOSION. ALSO REACTS VIOLENTLY WITH STRONG REDUCING AGENTS, METALS, SULFUR TRIOXIDE, STRONG OXIDIZERS AND WATER. CONTACT WITH METALS MAY PRODUCE TOXIC SULFUR DIOXIDE FUMES AND MAY RELEASE FLAMMABLE HYDROGEN GAS.

LEAD COMPOUNDS:
AVOID CONTACT WITH STRONG BASES, ACIDS, COMBUSTIBLE ORGANIC MATERIALS, HALIDES, HALOGENATES, POTASSIUM NITRATE, PERMANGANATE, PEROXIDES, NASCENT HYDROGEN, REDUCING AGENTS AND WATER.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
LEAD COMPOUNDS EXPOSED TO HIGH TEMPERATURES WILL LIKELY PRODUCE TOXIC METAL FUME, VAPOR OR DUST; CONTACT WITH STRONG ACID/BASE OR PRESENCE OF NASCENT HYDROGEN MAY GENERATE HIGHLY TOXIC ARSINE GAS. SULFURIC ACID: SULFUR TRIOXIDE, CARBON MONOXIDE, SULFURIC ACID MIST, SULFUR DIOXIDE AND HYDROGEN.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

LEAD (7439-92-1)	EFFECT DOSE / SPECIES METHOD	TIME
ACUTE ORAL TOXICITY	155 MG/KG HUMAN	LD50
ACUTE ORAL TOXICITY	1050 UG/KG RAT TDLO	30 WEEKS (INT.)
ACUTE INHALATIVE TOXICITY (DUST/MIST)	0.011 MG/M3 HUMAN LCLO	26 WEEKS (INT.)
MUTAGEN	23 UG/M3 RAT INHALATION	16 WEEKS
REPRODUCTIVE	790 MG/KG RAT TDLO (ORAL)	
REPRODUCTIVE	3 MG/M3 RAT TCLO (INHALATION)	1-21 DAYS PREG.

SULFURIC ACID (7664-93-9)	EFFECT DOSE / SPECIES METHOD	TIME
ACUTE ORAL TOXICITY	2140 MG/KG RAT	LD50
ACUTE INHALATIVE TOXICITY (VAPOR)	30 MG/M3 PIG	7 DAYS (CON.)
ACUTE INHALATIVE TOXICITY (VAPOR)	510 MG/M3 RAT	LC50 2 HOURS

ACUTE INHALATIVE TOXICITY (VAPOR) 3 MG/M3 HUMAN LCLO 24 WEEKS

IRRITATION 5 MG RABBIT SEV (EYE) 30 SECOND RINSE

IRRITATION 250 UG RABBIT SEV (EYE)

ANTIMONY (7440-36-0) EFFECT DOSE / SPECIES METHOD TIME CONCENTRATION

ACUTE ORAL TOXICITY 100 MG/KG RAT LD50

ACUTE INHALATIVE TOXICITY (DUST/MIST) 13.5 MG/M3 HUMAN LCLO 4 HOURS

TUMORIGEN/CARCINOGEN 50 MG/M3 RAT TCLO 7 HOURS 52 WEEKS (INT.)

ARSENIC (7440-38-2) EFFECT DOSE / SPECIES METHOD TIME CONCENTRATION

ACUTE ORAL TOXICITY 763 MG/KG RAT LD50

ACUTE ORAL TOXICITY 5 MG/KG RAT LD50

MUTAGEN 0.211 MG/L HUMAN ORAL 15 YEARS

REPRODUCTIVE 605 UG/KG RAT TDLO 35 WEEKS PREG.

11.2 OTHER INFORMATION:

11.2.1 CARCINOGENIC EFFECTS:

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN, A SUBSTANCE THAT IS CARCINOGENIC TO HUMANS. THIS CLASSIFICATION DOES NOT APPLY TO LIQUID FORMS OF SULFURIC ACID OR SULFURIC ACID SOLUTIONS CONTAINED WITHIN A BATTERY. BATTERIES SUBJECTED TO ABUSIVE CHARGING AT EXCESSIVELY HIGH CURRENTS FOR PROLONGED PERIODS WITHOUT VENT CAPS IN PLACE MAY CREATE A SURROUNDING ATMOSPHERE OF THE OFFENSIVE STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID.

CARCINOGENIC EFFECTS:

CAS	IARC	NTP
SULFURIC ACID 7664-93-9	GROUP 1-CARCINOGEN	NOT ESTABLISHED

LEAD 7439-92-1	GROUP 2A-PROBABLE CARCINOGEN	REASONABLY ANTICIPATED TO BE HUMAN CARCINOGEN
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11.2.2 ROUTES OF EXPOSURE:

11.2.2.1 IN CASE OF INGESTION:

ACUTE (IMMEDIATE): UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED. LEAD INGESTION MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA AND SEVERE CRAMPING.

CHRONIC (DELAYED): NO DATA AVAILABLE

11.2.2.2 IN CASE OF SKIN CONTACT:

ACUTE (IMMEDIATE): UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED.

CHRONIC (DELAYED): NO DATA AVAILABLE

11.2.2.3 IN CASE OF INHALATION:

ACUTE (IMMEDIATE): UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED. CONTENTS OF AN OPEN BATTERY CAN CAUSE RESPIRATORY IRRITATION.

CHRONIC (DELAYED): REPEATED AND PROLONGED EXPOSURE MAY CAUSE IRRITATION.

11.2.2.4 IN CASE OF EYE CONTACT:

ACUTE (IMMEDIATE): UNDER NORMAL CONDITIONS OF USE, NO HEALTH EFFECTS ARE EXPECTED. EXPOSURE TO DUST MAY CAUSE IRRITATION.

CHRONIC (DELAYED): NO DATA AVAILABLE

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY: AQUATIC TOXICITY.

12.1.1 SUBSTANCES:
ACUTE (SHORT-TERM) TOXICITY: SULFURIC ACID

EFFECT DOSE	EXPOSURE TIME	SPECIES	METHOD	EVALUATION	REMARK
82 MG/L	24 HOURS	BRACHYDANIO RERIO		LC50	
22 MG/L	96 HOURS	CYPRINUS CARPIO	LOEC		LOWEST OBSERVABLE EFFECT CONCENTRATION

12.2 ENVIRONMENTAL FATE:

LEAD IS VERY PERSISTENT IN SOIL AND SEDIMENTS. NO DATA ON ENVIRONMENTAL DEGRADATION. MOBILITY OF METALLIC LEAD BETWEEN ECOLOGICAL COMPARTMENTS IS SLOW. BIOACCUMULATION OF LEAD OCCURS IN AQUATIC AND TERRESTRIAL ANIMALS AND PLANTS BUT LITTLE BIOACCUMULATION OCCURS THROUGH THE FOOD CHAIN. MOST SDFIES INCLUDE LEAD COMPOUNDS AND NOT ELEMENTAL LEAD.



SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

13.1.1 PRODUCT/PACKAGING DISPOSAL: DISPOSE OF CONTENT AND/OR CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, AND/OR INTERNATIONAL REGULATIONS.

13.1.2 WASTE CODES/WASTE DESIGNATIONS ACCORDING TO EWC/AVV: 16 06 01*

ADDITIONAL INFORMATION: WASTE MARKED WITH AN ASTERISK (*) IS CONSIDERED AS A HAZARDOUS WASTE PURSUANT TO DIRECTIVE 91/689/EEC ON HAZARDOUS WASTE, AND SUBJECT TO THE PROVISIONS OF THAT DIRECTIVE UNLESS ARTICLE 1(5) OF THAT DIRECTIVE APPLIES.

SECTION 14: TRANSPORT INFORMATION

14.1 LAND TRANSPORT (CFR 49: DOT): THESE BATTERIES HAVE BEEN TESTED AND MEET THE NON-SPILLABLE CRITERIA LISTED IN 49 CFR 173.159(F) (1) AND (2). NON-SPILLABLE BATTERIES ARE EXCEPTED FROM THE PACKAGING REQUIREMENT OF 49 CFR 173.159A PROVIDED THAT THE FOLLOWING CRITERIA ARE MET.

- 1.) THE BATTERIES MUST BE PROTECTED AGAINST SHORT CIRCUITS AND SECURELY PACKAGED.
2.) THE BATTERIES AND THEIR OUTER PACKAGING MUST BE PLAINLY AND DURABLY MARKED "NON-SPILLABLE" OR "NONSPILLABLE BATTERY".

UN-NO: UN2800
PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE.
CLASS(ES): 8
HAZARD LABEL(S): 8
SPECIAL PROVISIONS/EXCEPTIONS: 159A

14.2 LAND TRANSPORT (ADR/RID/GGVSEB): NON-SPILLABLE BATTERIES ARE NOT SUBJECT TO THE REQUIREMENTS OF ADR IF, AT A TEMPERATURE OF 55C, THE ELECTROLYTE WILL NOT FLOW FROM A RUPTURED OR CRACKED CASE AND THERE IS NO FREE LIQUID TO FLOW AND IF, AS PACKAGED FOR CARRIAGE, THE TERMINALS ARE PROTECTED FROM SHORT CIRCUIT.

UN-NO: UN2800
PROPER SHIPPING NAME: BATTERIES, WET, NOT-SPILLABLE.
CLASS(ES): 8
CLASSIFICATION CODE: C11
HAZARD LABEL(S): 8
SPECIAL PROVISION(S): 238, 295, 598

14.3 LAND TRANSPORT (TDG):

THESE BATTERIES HAVE BEEN TESTED AND MEET THE NON-SPILLABLE CRITERIA. NON-SPILLABLE BATTERIES ARE EXCEPTED PROVIDED THAT THE FOLLOWING CRITERIA ARE MET:

- 1.) THE BATTERIES MUST BE PROTECTED AGAINST SHORT CIRCUITS AND SECURELY PACKAGED
BATTERIES AND THEIR OUTER PACKAGING MUST BE PLAINLY AND DURABLY MARKED "NON-SPILLABLE" OR "NON SPILLABLE BATTERY".

UN-NO: UN2800
PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE.
CLASS(ES): 8
HAZARD LABEL(S): 8
SPECIAL PROVISION(S): 39

14.4 SEA TRANSPORT (IMDG-CODE/GGVSEE): THESE BATTERIES HAVE BEEN TESTED AND MEET THE NON-SPILLABLE CRITERIA LISTED IN IMDG CODE SPECIAL PROVISION 238.1 AND 2. THEREFORE, ARE NOT SUBJECT TO THE PROVISIONS OF THE IMDG CODE PROVIDED THAT THE BATTERY TERMINALS ARE PROTECTED AGAINST SHORT CIRCUITS WHEN PACKAGED FOR TRANSPORT.

UN NO: UN2800
PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE.
CLASS(ES): 8
MARINE POLLUTANT: NO
SPECIAL PROVISION(S): 29, 238

14.5 AIR TRANSPORT (ICAO-IATA/DGR): UNIVERSAL POWER GROUP, INC. VRLA BATTERIES HAVE BEEN TESTED AND MEET THE NON-SPILLABLE CRITERIA LISTED IN IATA PACKING INSTRUCTION 872 AND SPECIAL PROVISION A67. THESE BATTERIES ARE EXCEPTED FROM ALL IATA REGULATIONS PROVIDED THAT THE BATTERY TERMINALS ARE PROTECTED AGAINST SHORT CIRCUITS. THE WORDS "NOT RESTRICTED, AS PER SPECIAL PROVISION A67" MUST BE INCLUDED IN THE DESCRIPTION ON THE AIR WAYBILL.

UN NO: UN2800
PROPER SHIPPING NAME: BATTERIES, WET, NON-SPILLABLE.
CLASS(ES): 8
SPECIAL PROVISION(S): A48, A67, A164, A183

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE:

15.1.1 NATIONAL REGULATIONS(CANADA):

WHMIS CLASSIFICATION: CLASS E: CORROSIVE MATERIALS PRESENT AT GREATER THAN 1%

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

CANADA DSL:

THE FOLLOWING SUBSTANCES ARE LISTED ON THE CANADIAN DSL: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2)

CANADA NDSL: NONE OF THE COMPONENTS ON THIS SDS ARE LISTED ON THE CANADIAN NDSL:

WHMIS: INGREDIENT DISCLOSURE LIST

Table with 4 columns: SUBSTANCE, CAS NO., WT %, DISCLOSURE LIMIT %. Rows include Calcium, Sulfuric Acid, Lead, Antimony, and Arsenic.

CEPA: PRIORITY SUBSTANCES LIST

Table with 4 columns: SUBSTANCE, CAS NO., WT %, STATUS. Rows include Calcium, Sulfuric Acid, Lead, Antimony, and Arsenic.

15.1.2 NATIONAL REGULATIONS(CHINA):

THE FOLLOWING COMPONENTS ARE LISTED ON THE INVENTORY LIST FOR CHINA: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).

15.1.3 NATIONAL REGULATIONS(EUROPEAN UNION):

CLASSIFICATION: Xi; C

RISK PHRASES: R35, R36, R38

SAFETY PHRASES: S1/2, S26, S30, S45

THE FOLLOWING COMPONENTS ARE LISTED ON THE EU EINECS: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).

NONE OF THE ABOVE MENTIONED COMPONENTS ARE LISTED ON THE EU ELNICS.

CLP (1272/2008) CONCENTRATION LIMITS:

Table with 4 columns: SUBSTANCE, CAS, WT %, CONCENTRATION LIMIT. Rows include Calcium, Sulfuric Acid, Lead, Antimony, and Arsenic.



SULFURIC ACID 7664-93-9 10-30 B
 LEAD 7439-92-1 63-78 NOT LISTED
 LEAD AS LEAD COMPOUNDS 63-78 A, E, 1 (EXCEPT THOSE SPECIFIED ELSEWHERE IN THE ANNEX)
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY COMPOUNDS 0.2 A, 1 (EXCEPT TETROXIDE, PENTOXIDE, TRISULPHIDE, PENTASULPHIDE AND THOSE SPECIFIED ELSEWHERE IN THE ANNEX)

ARSENIC 7440-38-2 0.003 NOT LISTED
 GERMANY:
 LEAD RESTRICTIONS:

LEAD CONCENTRATION IN THE BLOOD ABOVE 300 (MICRO)G/L IN MALE EMPLOYEES AND 100 (MICRO)G/L IN FEMALE EMPLOYEES REQUIRES ADDITIONAL TRAINING FOR PERSONAL HYGIENE AND VIGILANCE. LEAD CONCENTRATION IN THE BLOOD ABOVE 350 (MICRO)G/L IN MALE EMPLOYEES AND 200 (MICRO)G/L IN FEMALE EMPLOYEES REQUIRES ADDITIONAL TRAINING FOR PERSONAL HYGIENE AND VIGILANCE; LEAD CONCENTRATION IN THE BLOOD ABOVE 400 (MICRO)G/L IN MALE EMPLOYEES AND 300 (MICRO)G/L IN FEMALE EMPLOYEES REQUIRES ADDITIONAL TRAINING FOR PERSONAL HYGIENE AND VIGILANCE; SEE TRGS 505 FOR DETAILED REGULATIONS REGARDING LEAD AND LEAD COMPOUNDS.

EMPLOYMENT RESTRICTIONS FOR EMPLOYEES BELOW THE AGE OF 18 YEARS; EMPLOYMENT RESTRICTIONS FOR PREGNANT OR BREASTFEEDING WOMEN; PROHIBITED FOR USE AT HOME BASED WORKPLACES; RESTRICTIONS APPLY FOR USE OF LEAD COMPOUNDS IN PACKAGING MATERIAL, DRINKING WATER SYSTEMS, CARS, ELECTRICAL AND ELECTRONICAL DEVICES; SEE TRGS 505 FOR DETAILED REGULATIONS REGARDING LEAD AND LEAD COMPOUNDS.

EMISSION LIMITS FOR INORGANIC DUSTS:
 SUBSTANCE CAS WT % EMISSION LIMIT
 CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 NOT LISTED

LEAD 7439-92-1 63-78 2.5 G/H MASS FLOW (CLASS II); 0.5 MG/M3 MASS CONCENTRATION (CLASS II)

LEAD AS LEAD COMPOUNDS 63-78 2.5 M/H MASS FLOW (CLASS II, AS Pb); 0.5 MG/M3 MASS CONCENTRATION (CLASS II, AS Pb)

LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 5 G/H MASS FLOW (CLASS III); 1 MG/M3 MASS CONCENTRATION (CLASS III)

ANTIMONY 7440-36-0 0.2 5 G/H MASS FLOW (CLASS III); 1 MG/M3 MASS CONCENTRATION (CLASS III)

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 5 G/H MASS FLOW (CLASS III, AS Sb); 1 MG/M3 MASS CONCENTRATION (CLASS III, AS Sb)

ARSENIC 7440-38-2 0.003 NOT LISTED

15.1.4 NATIONAL REGULATIONS(JAPAN):

THE FOLLOWING CHEMICALS ARE ON THE JAPANESE ENCS: LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).

ISHL HARMFUL SUBSTANCES WHOSE NAMES ARE TO BE INDICATED ON THE LABEL:

SUBSTANCE	CAS	WT %	LIMIT
CALCIUM	7440-70-2	0.002	NOT LISTED
SULFURIC ACID	7664-93-9	10-30	NOT LISTED
LEAD	7439-92-1	63-78	0.1% WEIGHT
LEAD AS LEAD COMPOUNDS		63-78	0.1% WEIGHT
LEAD AS LEAD, INORGANIC COMPOUNDS		63-78	NOT LISTED
TIN	7440-31-5	0.006	NOT LISTED
ANTIMONY	7440-36-0	0.2	NOT LISTED
ANTIMONY AS ANTIMONY COMPOUNDS		0.2	NOT LISTED
ARSENIC	7440-38-2	0.003	0.1% WEIGHT

ISHL PREVENTION OF LEAD POISONING:
 SUBSTANCE CAS WT % STATUS

CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 NOT LISTED
 LEAD 7439-92-1 63-78 NOT LISTED
 LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED

ISHL NOTIFIABLE SUBSTANCES:

SUBSTANCE	CAS	WT %	LIMIT
CALCIUM	7440-70-2	0.002	NOT LISTED
SULFURIC ACID	7664-93-9	10-30	1% WEIGHT
LEAD	7439-92-1	63-78	0.1% WEIGHT
LEAD AS LEAD COMPOUNDS		63-78	NOT LISTED
LEAD AS LEAD, INORGANIC COMPOUNDS		63-78	0.1% WEIGHT
TIN	7440-31-5	0.006	0.1% WEIGHT
ANTIMONY	7440-36-0	0.2	0.1% WEIGHT
ANTIMONY AS ANTIMONY COMPOUNDS		0.2	0.1% WEIGHT
ARSENIC	7440-38-2	0.003	0.1%WEIGHT

AIR POLLUTION CONTROL LAW:

EMISSION STANDARDS FOR AIR POLLUTANTS:

SUBSTANCE	CAS	WT %	EMISSION LIMIT
CALCIUM	7440-70-2	0.002	NOT LISTED
SULFURIC ACID	7664-93-9	10-30	NOT LISTED
LEAD	7439-92-1	63-78	10-30 MG/NM3
LEAD AS LEAD COMPOUNDS		63-78	10-30 MG/NM3
LEAD AS LEAD, INORGANIC COMPOUNDS		63-78	NOT LISTED

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2 NOT LISTED

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED

ARSENIC 7440-38-2 0.003 NOT LISTED

POLLUTANT RELEASE TRANSFER REGISTER (PRTR):

CLASS 1 SUBSTANCES:

SUBSTANCE	CAS	WT %	STATUS
CALCIUM	7440-70-2	0.002	NOT LISTED
SULFURIC ACID	7664-93-9	10-30	NOT LISTED
LEAD	7439-92-1	63-78	304
LEAD AS LEAD COMPOUNDS		63-78	305 (DESIGNATED CLASS 1 SUBSTANCE)

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2 31

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 31

ARSENIC 7440-38-2 0.003 332 (DESIGNATED CLASS 1 SUBSTANCE)

ISHL WORKING ENVIRONMENT EVALUATION STANDARDS: ADMINISTRATIVE CONTROL LEVELS:

SUBSTANCE	CAS	WT %	LIMIT
CALCIUM	7440-70-2	0.002	NOT LISTED
SULFURIC ACID	7664-93-9	10-30	NOT LISTED
LEAD	7439-92-1	63-78	0.05 MG/M3 ACL
LEAD AS LEAD COMPOUNDS (AS Pb)		63-78	0.05 MG/M3 ACL
LEAD AS LEAD, INORGANIC COMPOUNDS		63-78	NOT LISTED
TIN	7440-31-5	0.006	NOT LISTED





HAZARDOUS SUBSTANCES AND THEIR REPORTABLE QUANTITIES:
 CERCLA/SARA: CAS WT % REPORTABLE QUANTITY
 SUBSTANCE CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 1000 LB FINAL RQ 454 KG FINAL RQ
 LEAD 7439-92-1 63-78 10 LB FINAL RQ (NO REPORTING OF RELEASES OF THIS HAZARDOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASSED IS LARGER THAN 100 MICROMETERS)
 LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 5000 LB FINAL RQ (NO REPORTING OF RELEASES OF THIS HAZARDOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASSED IS LARGER THAN 100 MICROMETERS); 2270 KG FINAL RQ (NO REPORTING OF RELEASES OF THIS HAZARDOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASSED IS LARGER THAN 100 MICROMETERS)
 ARSENIC 7440-38-2 0.003 1 LB FINAL RQ (NO REPORTING OF RELEASES OF THIS HAZARDOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASSED IS LARGER THAN 100 MICROMETERS)
 SPECIFICALLY REGULATED CHEMICALS: CAS WT % LIMIT
 SUBSTANCE CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 NOT LISTED
 LEAD 7439-92-1 63-78 NOT LISTED
 LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED
 CA: 1990 HAZARDOUS AIR POLLUTANTS: CAS WT % LIMIT
 SUBSTANCE CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 NOT LISTED
 LEAD 7439-92-1 63-78 NOT LISTED
 LEAD AS LEAD COMPOUNDS 63-78 (INCLUDES ANY UNIQUE CHEMICAL SUBSTANCE THAT CONTAINS LEAD AS PART OF ITS INFRASTRUCTURE)
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY 7440-36-0 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED
 SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES TPQS: CAS WT % THRESHOLD PLANNING QUANTITY
 SUBSTANCE CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 1000 LB TPQ
 LEAD 7439-92-1 63-78 NOT LISTED
 LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY 7440-36-0 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED
 RCRA: ARSENIC 7440-38-2 0.003 NOT LISTED

ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED
 NATIONAL REGULATIONS (MEXICO): POLLUTANT RELEASE AND TRANSFER REGISTER:
 REPORTING EMISSIONS: CAS WT % THRESHOLD QUANTITIES
 SUBSTANCE CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 NOT LISTED
 LEAD 7439-92-1 63-78 NOT LISTED
 LEAD AS LEAD COMPOUNDS 63-78 1 KG/R/TQ
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 1 KG/R/TQ
 15.1.7 NATIONAL REGULATIONS (UNITED STATES):
 THE FOLLOWING SUBSTANCES ARE ON THE MA, NJ, AND PA RIGHT TO KNOW LISTS:
 LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).
 THE FOLLOWING SUBSTANCES ARE ON THE TSCA INVENTORY:
 LEAD (7439-92-1); SULFURIC ACID (7664-93-9); ANTIMONY (7440-36-0); TIN (7440-31-5); ARSENIC (7440-38-2); CALCIUM (7440-70-2).
 OSHA: SPECIFICALLY REGULATED CHEMICALS: CAS WT % LIMIT
 SUBSTANCE CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 NOT LISTED
 LEAD 7439-92-1 63-78 30 (MICRO)G/M3 ACTION LEVEL (POISON, SEE 29 CFR 1910.1025); 50 (MICRO)G/M3 TWA
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 30 (MICRO)G/M3 ACTION LEVEL (POISON, SEE 29 CFR 1910.1025), 50 (MICRO)G/M3 TWA (AS Pb)
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY 7440-36-0 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED
 CA: 1990 HAZARDOUS AIR POLLUTANTS: CAS WT % LIMIT
 SUBSTANCE CALCIUM 7440-70-2 0.002 NOT LISTED
 SULFURIC ACID 7664-93-9 10-30 NOT LISTED
 LEAD 7439-92-1 63-78 NOT LISTED
 LEAD AS LEAD COMPOUNDS 63-78 (INCLUDES ANY UNIQUE CHEMICAL SUBSTANCE THAT CONTAINS LEAD AS PART OF ITS INFRASTRUCTURE)
 LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED
 TIN 7440-31-5 0.006 NOT LISTED
 ANTIMONY 7440-36-0 0.2 NOT LISTED
 ANTIMONY AS ANTIMONY 7440-36-0 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED
 INFRASTRUCTURE) ANTIMONY AS PART OF ITS INFRASTRUCTURE)
 ANTIMONY AS ANTIMONY 7440-36-0 0.2 NOT LISTED
 ARSENIC 7440-38-2 0.003 NOT LISTED

BASIS FOR LISTING:

APPENDIX VII:

SUBSTANCE CAS WT % BASIS

CALCIUM 7440-70-2 0.002 NOT LISTED

SULFURIC ACID 7664-93-9 10-30 NOT LISTED

7439-92-1 63-78 INCLUDED IN WASTE STREAMS:
F035, F037, F038, F039, K002,
K003, K005, K046, K048, K049,
K051, K052, K061, K062, K064,
K065, K066, K069, K086, K100,
K176

LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2 INCLUDED IN WASTE STREAMS:
F039, K021, K161, K177

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED

ARSENIC 7440-38-2 0.003 INCLUDED IN WASTE STREAMS:
F032, F034, F035, F039, K031,
K060, K084, K101, K102, K161,
K171, K172, K176

D SERIES WASTES:

MAX CONCENTRATION OF CONTAMINANTS FOR THE TOXIC CHARACTERISTIC:

SUBSTANCE CAS WT % REGULATORY LEVEL

CALCIUM 7440-70-2 0.002 NOT LISTED

SULFURIC ACID 7664-93-9 10-30 NOT LISTED

LEAD 7439-92-1 63-78 5.0 MG/L

LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2 NOT LISTED

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED

ARSENIC 7440-38-2 0.003 5.0 MG/L

HAZARDOUS CONSTITUENTS:

APPENDIX VIII TO 40 CFR 261:

SUBSTANCE CAS WT % STATUS

CALCIUM 7440-70-2 0.002 NOT LISTED

SULFURIC ACID 7664-93-9 10-30 NOT LISTED

LEAD 7439-92-1 63-78 HAZARDOUS CONSTITUENT - NO WASTE NUMBER

LEAD AS LEAD COMPOUNDS 63-78 HAZARDOUS CONSTITUENT - NO WASTE NUMBER

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2 HAZARDOUS CONSTITUENT - NO WASTE NUMBER

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 HAZARDOUS CONSTITUENT - NO WASTE NUMBER

ARSENIC 7440-38-2 0.003 HAZARDOUS CONSTITUENT - NO WASTE NUMBER

CALIFORNIA:

CALIFORNIA PROPOSITION 65:

SUBSTANCE CAS WT % STATUS

CALCIUM 7440-70-2 0.002 NOT LISTED

SULFURIC ACID 7664-93-9 10-30 NOT LISTED

LEAD 7439-92-1 63-78 CARCINOGEN(INITIAL DATE 10/1/92); DEVELOPMENTAL TOXICITY(INITIAL DATE 2/27/87); 0.5 G/DAY(MAXIMUM ALLOWABLE DOSE LEVEL); 15 G/DAY ORAL(NO SIGNIFICANT RISK LEVEL); FEMALE

REPRODUCTIVE TOXICITY(INITIAL DATE 2/27/87); MALE REPRODUCTIVE TOXICITY(INITIAL DATE 2/27/87)

LEAD AS LEAD COMPOUNDS 63-78 CARCINOGEN(INITIAL DATE 10/1/92)

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 DEVELOPMENTAL TOXICITY(INITIAL DATE 2/27/87)

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2 NOT LISTED

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED

ARSENIC 7440-38-2 0.003 0.06 G/DAY INHALATION(NO SIGNIFICANT RISK LEVEL); 10 G/DAY EXCEPT INHALATION(NO SIGNIFICANT RISK LEVEL)

PENNSYLVANIA:

ENVIRONMENTAL HAZARD LIST:

SUBSTANCE CAS WT % REGULATORY LEVEL

CALCIUM 7440-70-2 0.002 NOT LISTED

SULFURIC ACID 7664-93-9 10-30

LEAD 7439-92-1 63-78

LEAD AS LEAD COMPOUNDS 63-78

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2

ANTIMONY AS ANTIMONY COMPOUNDS 0.2

ARSENIC 7440-38-2 0.003

SPECIAL HAZARDOUS SUBSTANCES:

SUBSTANCE CAS WT % REGULATORY LEVEL

CALCIUM 7440-70-2 0.002 NOT LISTED

SULFURIC ACID 7664-93-9 10-30 NOT LISTED

LEAD 7439-92-1 63-78 NOT LISTED

LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 NOT LISTED

ANTIMONY 7440-36-0 0.2 NOT LISTED

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 NOT LISTED

ARSENIC 7440-38-2 0.003

RHODE ISLAND:

HAZARDOUS SUBSTANCES LIST:

SUBSTANCE CAS WT % REGULATORY LEVEL

CALCIUM 7440-70-2 0.002 FLAMMABLE

SULFURIC ACID 7664-93-9 10-30 TOXIC; FLAMMABLE

LEAD 7439-92-1 63-78 TOXIC (DUST AND FUME)

LEAD AS LEAD COMPOUNDS 63-78 NOT LISTED

LEAD AS LEAD, INORGANIC COMPOUNDS 63-78 NOT LISTED

TIN 7440-31-5 0.006 TOXIC

ANTIMONY 7440-36-0 0.2 TOXIC

ANTIMONY AS ANTIMONY COMPOUNDS 0.2 TOXIC

ARSENIC 7440-38-2 0.003 TOXIC; CARCINOGEN

-----SECTION 16: OTHER INFORMATION-----

16.1 RELEVANT R-, H- AND EUH-PHRASES (NUMBER AND FULL TEXT):

HAZARD ABBREVIATIONS:

XI: IRRITANT.

XN: HARMFUL.

N: DANGEROUS FOR THE ENVIRONMENT.

T: TOXIC.

C: CORROSIVE.

F: HIGHLY FLAMMABLE.

RISK PHRASES:





R15: CONTACT WITH WATER LIBERATES EXTREMELY FLAMMABLE GASES.
R20/22: HARMFUL BY INHALATION AND IF SWALLOWED.
R23/25: TOXIC BY INHALATION AND IF SWALLOWED.
R33: DANGER OF CUMULATIVE EFFECTS.
R35: CAUSES SEVERE BURNS.
R37/38: IRRITATING TO EYES.
R41: IRRITATING TO SKIN.
R50: VERY TOXIC TO AQUATIC ORGANISMS.
R50/53: VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R51/53: TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R53: MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R61: MAY CAUSE HARM TO THE UNBORN CHILD.
R62: POSSIBLE RISK OF IMPAIRED FERTILITY.
SAFETY PHRASES:
S1/2: KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN.
S2: KEEP OUT OF THE REACH OF CHILDREN.
S8: KEEP CONTAINER DRY.
S20/21: WHEN USING DO NOT EAT, DRINK, OR SMOKE.
S24/25: AVOID CONTACT WITH SKIN AND EYES.
S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S28: AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.
S30: NEVER ADD WATER TO THIS PRODUCT.
S43: IN CASE OF FIRE USE CO2, DRY CHEMICAL, OR FOAM, NEVER USE WATER.
S45: IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
S53: AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
S61: AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.
HAZARD STATEMENTS:
H313: MAY BE HARMFUL IN CONTACT WITH SKIN.
H315: CAUSES SKIN IRRITATION.
H335: MAY CAUSE RESPIRATORY IRRITATION.
EUH201 A: WARNING! CONTAINS LEAD.
PRECAUTIONARY STATEMENTS:
P102: KEEP OUT OF REACH OF CHILDREN.
P233: KEEP CONTAINERS TIGHTLY CLOSED.
P210: KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME WHILE CHARGING BATTERIES.
16.2 FURTHER INFORMATION:
THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. UNIVERSAL POWER GROUP, INC. ASSUMES NO RESPONSIBILITY FOR INJURY TO THE VENDOR OR THIRD PERSONS PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE DATA SHEET. ADDITIONALLY, UNIVERSAL POWER GROUP, INC. ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDOR OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED. FURTHERMORE, VENDOR ASSUMES THE RISK IN HIS USE OF THE MATERIAL.