

Version Number: 1

Preparation date: 2005-10-27

1. PRODUCT AND COMPANY IDENTIFICATION	
Product name:	FLOW FREE Alkaline Drain Cleaner
MSDS #:	MS0600036
Product code:	U23003
Recommended use:	Specialty Cleaner .
Manufacturer, importer, supplier:	Unisource Worldwide, Inc. 6600 Governors Lake Parkway Norcross, GA 30071 Phone: 770-447-9000 MSDS Internet Address: www.unisourcelink.com
Emergency telephone number:	1-888-660-6737

2. HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW	
<ul style="list-style-type: none"> • DANGER • POISON • CORROSIVE • CAUSES EYE AND SKIN BURNS • HARMFUL OR FATAL IF SWALLOWED 	
<ul style="list-style-type: none"> • DO NOT MIX WITH ACIDS, TOILET BOWL CLEANERS, AMMONIA, OR ANY OTHER CHEMICAL 	
Principle routes of exposure:	<ul style="list-style-type: none"> • Eye contact • Skin contact • Inhalation
Eye contact:	<ul style="list-style-type: none"> • Corrosive • Causes permanent eye damage, including blindness
Skin contact:	<ul style="list-style-type: none"> • Corrosive • May cause permanent damage
Inhalation:	<ul style="list-style-type: none"> • May cause irritation and corrosive effects to nose, throat and respiratory tract
Ingestion:	<ul style="list-style-type: none"> • Corrosive • May cause burns to mouth, throat and stomach

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %
Potassium hydroxide	1310-58-3	10 - 30%
Sodium hydroxide	1310-73-2	10 - 30%

HAZARDOUS COMPONENTS

Ingredient	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	273 mg/kg (rat)	Not available	Not available
Sodium hydroxide	140 mg/kg (rat)	Not available	Not available

4. FIRST AID MEASURES

Eye contact:	<ul style="list-style-type: none"> • Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open • Get medical attention immediately
Skin contact:	<ul style="list-style-type: none"> • Flush immediately with plenty of water for at least 15 minutes • Get medical attention immediately
Inhalation:	<ul style="list-style-type: none"> • If breathing is affected, remove to fresh air • Get medical attention immediately

Ingestion:	<ul style="list-style-type: none"> • Do not induce vomiting • Immediately drink one cupful of water or milk • Never give anything by mouth to an unconscious person • Get medical attention immediately
Aggravated Medical Conditions:	<ul style="list-style-type: none"> • Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	<ul style="list-style-type: none"> • Dry chemical, water spray, foam, carbon dioxide
Specific hazards:	<ul style="list-style-type: none"> • Not applicable
Unusual hazards:	<ul style="list-style-type: none"> • Corrosive material (See sections 8 and 10)
Specific methods:	<ul style="list-style-type: none"> • No special methods required
Special protective equipment for firefighters:	
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	
Extinguishing media which must not be used for safety reasons:	
No information available	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	<ul style="list-style-type: none"> • Ensure adequate ventilation • Use personal protective equipment
Environmental precautions and clean-up methods:	<ul style="list-style-type: none"> • Use appropriate containment to avoid environmental contamination • Sweep up and shovel into suitable containers for disposal • Keep in suitable and closed containers for disposal • Use a water rinse for final clean-up

7. HANDLING AND STORAGE

Handling:	<ul style="list-style-type: none"> • Avoid contact with skin, eyes and clothing • Do not taste or swallow • Avoid breathing vapors or mists • Use only with adequate ventilation • Remove and wash contaminated clothing and footwear before re-use • Wash thoroughly after handling • Product residue may remain on/in empty containers • All precautions for handling the product must be used in handling the empty container and residue
FOR COMMERCIAL AND INDUSTRIAL USE ONLY.	
Storage:	<ul style="list-style-type: none"> • Keep tightly closed in a dry, cool and well-ventilated place • Protect from freezing • Store in a cool, dry, well ventilated area away from heat or open flame • Keep out of the reach of children

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure:	
<ul style="list-style-type: none"> • Good general ventilation should be sufficient to control airborne levels • Respiratory protection is not required if good ventilation is maintained 	
Personal Protective Equipment	
Eye protection:	<ul style="list-style-type: none"> • Chemical splash goggles
Hand protection:	<ul style="list-style-type: none"> • Chemical resistant gloves • Neoprene gloves
Skin and body protection:	<ul style="list-style-type: none"> • Protective footwear • If major exposure is possible, wear suitable protective clothing and footwear

Respiratory protection:	<ul style="list-style-type: none"> If aerosols, mists, or vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over-exposure A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use
Hygiene measures:	<ul style="list-style-type: none"> Handle in accordance with good industrial hygiene and safety practice

Personal protective equipment



Ingredient	CAS #	ACGIH	OSHA	Mexico
Potassium hydroxide	1310-58-3	2 mg/m ³ (Ceiling)		
Sodium hydroxide	1310-73-2	2 mg/m ³ (Ceiling)	2 mg/m ³	2 mg/m ³ (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Aqueous solution
Color:	Colourless	Odor:	Odorless
Specific gravity:	1.410	pH:	>13.0
Dilution pH:	No information available.	Density:	11.75 lbs/gal
Bulk density:	No information available	Vapor density:	No information available
Evaporation rate:	No information available	Solubility:	Soluble
VOC:	No information available	Viscosity:	No information available
Solubility in other solvents:			No information available
Partition coefficient (n-octanol/water):			No information available
Boiling point/range:			Not determined
Melting point/range:			Not determined
Flash point:			>200 (°F) >93.3 (°C)
Decomposition temperature:			Not determined
Autoignition temperature:			No information available

10. STABILITY AND REACTIVITY

Stability:	<ul style="list-style-type: none"> The product is stable
Polymerization:	<ul style="list-style-type: none"> Hazardous polymerisation does not occur.
Hazardous decomposition products:	<ul style="list-style-type: none"> None reasonably foreseeable.
Materials to avoid:	<ul style="list-style-type: none"> Do not mix with any other product or chemical Ammonia Acids
Conditions to avoid:	<ul style="list-style-type: none"> Do not freeze Do not mix with any other product or chemical

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Corrosive Oral LD50 estimated to be < 50 mg/kg
Component Information:	<ul style="list-style-type: none"> See Section 3
Chronic toxicity:	<ul style="list-style-type: none"> None known
Specific effects	
Carcinogenic effects:	<ul style="list-style-type: none"> None known
Mutagenic effects:	<ul style="list-style-type: none"> None known
Reproductive toxicity:	<ul style="list-style-type: none"> None known
Target organ effects:	<ul style="list-style-type: none"> None known

12. ECOLOGICAL INFORMATION

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11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

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Environmental Information:	<ul style="list-style-type: none"> When used for its intended purpose this product should not cause adverse effects in the environment
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	<ul style="list-style-type: none"> Dispose of according to all federal, state and local applicable regulations
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14. TRANSPORT INFORMATION

DOT/TDG:	<ul style="list-style-type: none"> Please refer to the Bill of Lading/receiving documents for up to date shipping information
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15. REGULATORY INFORMATION

International Inventories	
All components of this product are listed on the following inventories: U.S.A. (TSCA).	
U.S. Regulations	
California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65	
SARA 311/312 Hazard Categories	
Immediate:	Y
Delayed:	N
Fire:	N
Reactivity:	N
Sudden Release of Pressure:	N

Canada	
WHMIS hazard class:	Not for sale in Canada.

STATE RIGHT TO KNOW

Ingredient	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Potassium hydroxide	1310-58-3	Listed	Listed	Listed	Listed	Listed	Listed
Sodium hydroxide	1310-73-2	Listed	Listed	Listed	Listed	Listed	Listed
Water	7732-18-5	-	-	-	-	-	-

CERCLA/SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Potassium hydroxide	1310-58-3	10 - 30%	1000		
Sodium hydroxide	1310-73-2	10 - 30%	1000		

16. OTHER INFORMATION

HMIS	Health	3	Fire Hazard	0	Reactivity	0
NFPA	Health:	3	Flammability:	0	Instability:	0

Reason for revision:	Not applicable
Prepared by:	NAPRAC
Additional advice:	None

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