



MATERIAL SAFETY DATA SHEET

FLOW FREE Alkaline Drain Cleaner

Version Number: 1

Preparation date: 2005-10-27

Product name:	FLOW FREE Alkaline Drain Cleaner
MSDS #:	MS0600036
Product code:	3752161, 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.unisourceink.com	
Emergency telephone number:	1-800-535-5053

EMERGENCY OVERVIEW	
<ul style="list-style-type: none"> • DANGER • POISON • CORROSIVE • CAUSES EYE AND SKIN BURNS • HARMFUL OR FATAL IF SWALLOWED • 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

HAZARDOUS COMPONENTS			
Ingredient(s)	CAS #	Weight %	
Potassium hydroxide	1310-58-3	10 - 30%	
Sodium hydroxide	1310-73-2	10 - 30%	

HAZARDOUS COMPONENTS			
Ingredient(s)	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Potassium hydroxide	= 214 mg/kg	Not available	Not available
Sodium hydroxide	= 140 mg/kg	= 1350 mg/kg	Not available

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

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(s)	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 (TWA)	2 mg/m ³ (Ceiling)

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
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

Stability:	<ul style="list-style-type: none"> The product is stable
Polymerization:	<ul style="list-style-type: none"> Hazardous polymerization 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

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

Environmental Information:	
	• No data available

Waste from residues / unused products:	
	• Dispose of according to all federal, state and local applicable regulations

DOT/TDG:	
	• Please refer to the Bill of Lading/receiving documents for up to date shipping 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(s)	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:
Potassium hydroxide	1310-58-3	X	X	-	X
Sodium hydroxide	1310-73-2	X	X	-	X
Water	7732-18-5	-	-	-	-

CERCLA/SARA

Ingredient(s)	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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