

MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION OF PRODUCT

Name: FLO-OUT DRAIN OPENER

Identity: Caustic Drain Opener

MSDS Number: 1137

Date: 3/04/2008

Supersedes: 5/25/2007

HEALTH: 3

FIRE: 0

REACTIVITY: 1

PROTECTION: C

SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Name	CAS Number	PEL	TLV	%
Sodium Hydroxide	1310-73-2	2mg/m3	2mg/m3	>50

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: NA	Specific Gravity: NA	Vapor Pressure (mm Hg.): ND	Melting Point: ND
Vapor Density (Air = 1): ND	Evaporation (H2O = 1):NA	Water Solubility: Complete	pH: 1% solution=13.0 ± 0.5
			VOCgm/L: 0

Appearance and Odor: White powder with aluminum chips.

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC): None	% LEL: ND	% UEL: ND	Flammable Limits: ND
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Extinguishing Media: Product is non-flammable, non-combustible. Foam, dry chemical, carbon dioxide.

Special Fire Fighting Procedures: Prevent breathing vapors. Wear SCBA and protective clothing. Cool containers with water

Unusual Fire and Explosion: Direct contact with water can cause a violent exothermic reaction. Product is strong oxidizer.

SECTION V. HEALTH HAZARD DATA

Route(s) of Entry: INHALATION? Yes EYES? Yes SKIN? Yes INGESTION? Yes

(Acute) Health Hazards:

Eyes: Corrosive. Causes eye burns. May cause permanent damage and blindness.

Skin: Corrosive. Causes skin burns. It may not produce an immediate burning sensation upon skin contact, delaying the awareness of worker that contact has occurred.

Ingestion: Can cause severe mouth, throat & stomach burns and maybe fatal.

Inhalation: Dust is irritating to respiratory tract characterized by coughing and shortness of breath.

(Chronic) Health Hazards: None Known

Signs and Symptoms of Exposure:

Eyes: Immediate burning sensation; small quantities can result in vision impairment

Skin: Can cause severe irritation and/or burns characterized by redness, swelling and scab formation.

Ingestion: May cause severe internal injury, gastroenteritis, bloody diarrhea, convulsion, collapse, headache

Inhalation: May produce irritation of upper respiratory tract with coughing & shortness of breath.

Medical Conditions Generally Aggravated by Exposure: Pre-existing contact site disorders.

Emergency First Aid Procedures:

Eyes: Immediately flush eyes with large amounts of water for about 15 minutes. Hold eyelids apart during the flushing to ensure thorough rinsing. Get medical attention immediately.

Skin: Immediately flush all affected areas with large amount of running water for at least 15 minutes. Remove and discard contaminated clothing and shoes. Get medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water, then give one to two glasses of water if victim is conscious. Obtain medical attention without delay.

Inhalation: Remove from source of contamination and move victim to fresh air. Get immediate medical attention.

SECTION VI. TOXICITY DATA

Carcinogenicity: NTP? No IARC No OSHA REGULATED? No
MONOGRAPHS?

SECTION VII. REACTIVITY DATA

Stability: Stable Hazardous Polymerization Will Not Occur
Incompatibility (Materials to Avoid): Reacts with acid to emit toxic fumes of nitrogen dioxide. Exothermic reaction on contact with water.
Hazardous Decomposition Byproducts: Emits nitrous oxides when heated to decomposition; oxides of sodium.

SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

Small Spills: Remove source of ignition. Small amounts of residue may be flushed to sewer with plenty of water.

Large Spills: Wear proper protective clothing. If likely to be mixed with water, dike area to contain spill.

Disposal: Dispose of in accordance with Federal, State & Local regulations

Handling and Storage: Store in cool, dry area. Keep container tightly closed and properly labeled.

Other Precautions: Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

SECTION IX. CONTROL MEASURES

Respiratory Protection: NIOSH or MSHA approved particulate respirator where exposure to dust is apparent.

Ventilation: Normal indoor

Local Exhaust: Recommended to control exposure levels.

Mechanical (General): Recommended in packaging, unloading areas, and open processing.

Protective Gloves: Rubber, vinyl, impervious

Eye Protection: Chemical safety goggles with side shields /face shield.

Other Protective Clothing or Equipment: Chemical resistant clothing - Long pants, sleeves, apron, boots

Work/Hygienic Practices: The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

SECTION X. DOT INFORMATION

CORROSIVE SOLID, BASIC, INORGANIC , n.o.s.(Sodium Hydroxide)8,UN3262,PG II

SECTION XI. MISCELLANEOUS INFORMATION

SARA 313: No

Notice: All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

NA - Not Available

NE - Not Established

ND – Not Determined