

MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION OF PRODUCT

Name: FLO-OUT DRAIN OPENER
Identity: Caustic Drain Opener MSDS Number: 1137 Date: 4/18/2005 Supersedes: 12/1/2004
TOXICITY: 3 FIRE: 0 REACTIVITY: 1 PROTECTION: C

SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Name	CAS Number	PEL	TLV	%
Sodium Hydroxide	1310-73-2	2 mg/ 3	2 mg/ 3	>50
Sodium Nitrate	7631-99-4	2 mg/ 3	2 mg/ 3	<50

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 212° F	Specific Gravity: NA	Vapor Pressure (mm Hg.): ND	Melting Point: ND
Vapor Density (Air = 1): ND	Evaporation (H2O = 1):0	Water Solubility: Complete	pH @ 77° F: 1% soln=12.9
			VOCgm/L: 0

Appearance and Odor: Orange powder, Green when diluted, Pine Odor

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: May cause irritation, redness, pain, blurred vision & tissue burns

Skin: Can cause severe burns which may not be immediately painful. Can penetrate skin and underlying tissues.

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

Inhalation: Dust is irritating to respiratory tract

(Chronic) Health Hazards: None Known

Signs and Symptoms of Exposure:

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

Skin: Slick feeling followed by delayed burning sensation if not removed, may cause deep ulceration.

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.

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. Do not give anything to drink. Obtain medical attention without delay.

Inhalation: Remove to fresh air. If irritation persists, obtain medical attention.

SECTION VI. TOXICITY DATA

Carcinogenicity: NTP? No IARC No OSHA REGULATED? No

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.

Hazardous Decomposition Byproducts: Thermal decomposition may include toxic & corrosive fumes of ammonia, sodium oxide & nitrous oxides.

SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

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

Small Spills: Clean-up and make sure dust does not disperse into the air. Keep spills from runoffs.

Large Spills: Same as for small spill. Small amounts may be flushed with plenty of water.

Disposal: Meet Federal, State & Local Requirements

Handling and Storage: Store in cool, dry well ventilated area. Keep container tightly closed when not in use.

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

SECTION IX. CONTROL MEASURES

Respiratory Protection: NIOSH approved for dust

Ventilation: Normal indoor

Local Exhaust: Recommended if generating dust

Mechanical (General): Recommended if generating dust

Protective Gloves: Rubber, vinyl, impervious

Eye Protection: ANSI Z87 Chemical Safety Goggles

Other Protective Clothing or Equipment: Long pants, sleeves, apron

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

OXIDIZING SOLIDS, CORROSIVE, n.o.s. (Sodium Nitrate, Sodium Hydroxide),5.1 ,8,UN3085,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