

Safety Data Sheet



Issue Date: 01-Feb-2012

Revision Date: 12- APR-2016

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Drain Free

Other means of identification

SDS # 413

Product Code 413

UN/ID No UN1814

Recommended use of the chemical and restrictions on use

Recommended Use Hospital grade drain opener. For professional and industrial use only.

Details of the supplier of the safety data sheet

Supplier Address

Banner Labs, Inc.
11875 West Little York, Suite 202
Houston, Texas 77041

Emergency Telephone Number

Company Phone Number Phone: 713-896-8778

Fax: 713-896-8001

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear liquid

Physical State Liquid

Odor Odorless

Classification

Acute toxicity, oral	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Hazardous to the aquatic environment, acute hazard	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 3

Hazards Not Otherwise Classified (HNOC)

Not applicable

Signal Word

Danger

Hazard Statements

Toxic if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.



Precautionary Statements - Prevention

Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse.

Precautionary Statements - Storage

Store in accordance with local/regional/national/international regulations. Store in a well-ventilated place. Keep container tightly closed. Store away from incompatible materials.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Potassium Hydroxide	1310-58-3	40 - <50
Other components below reportable levels		50 - <60

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Inhalation	IF INHALED: Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	IF SWALLOWED: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms and effects

Symptoms	Burning pain and severe corrosive skin damage. Diarrhea. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.
-----------------	---

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to the affected areas. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
---------------------------	--

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

During fire, gases hazardous to health may be formed.

Hazardous Combustion Products None known.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of the other involved materials.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. This product is miscible in water.
-----------------------------	---

Environmental Precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
----------------------------------	--

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
--------------------------------	---

Methods for Clean-Up	<p>Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g, cloth, fleece). Clean surface thoroughly to remove residual contamination.</p>
-----------------------------	---

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Do not breathe mist or vapor. DO not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink, or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store locked up. Store in original tightly closed container. Store away from incompatible materials.

Incompatible Materials

Water, moisture. Acids. Oxidizing agents. Metals. Halogenated materials. Magnesium. Chlorinated hydrocarbons. Alcohols. Maleic anhydride. Phenols. Acid chlorides. Sugars. Organic compounds. Nitro compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	Ceiling 2 mg/m ³	-	TWA 2 mg/m ³

Appropriate engineering controls

Engineering Controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin and Body Protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing. Wear appropriate thermal protective clothing, when necessary.

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Odorless
Appearance	Clear liquid	Odor Threshold	Not determined
Color	Colorless		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	>12		
Melting Point/Freezing Point	Not available		
Boiling Point/Boiling Range	> 100 °C / >212 °F		
Flash Point	Not available		
Evaporation Rate	Not available	(Water = 1)	
Flammability (Solid, Gas)	Liquid - not applicable		
Upper Flammability Limits	Not available		
Lower Flammability Limit	Not available		
Vapor Pressure	< 2.3 kPa @ 20°C		
Vapor Density	< 0.62 @ 20°C		
Specific Gravity	Not available		
Water Solubility	Soluble		
Solubility in other solvents	Not available		
Partition Coefficient	Not available		
Auto-ignition Temperature	Not available		
Decomposition Temperature	Not available		
Kinematic Viscosity	Not available		
Dynamic Viscosity	Not available		
Explosive Properties	Not available		
Oxidizing Properties	Not available		

10. STABILITY AND REACTIVITY**Reactivity**

Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Do not mix with other chemicals. Contact with incompatible materials.

Incompatible Materials

Water, moisture. Acids. Oxidizing agents. Metals. Halogenated materials. Magnesium. Chlorinated hydrocarbons. Alcohols. Maleic anhydride. Phenols. Acid chlorides. Sugars. Organic compounds. Nitro compounds.

Hazardous Decomposition Products

Carbon oxides. Heat is generated from contact with acids, water and or alcohols. When wet, attacks metals producing extremely flammable hydrogen gas form explosive mixtures with air.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact	Causes serious eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Ingestion	Toxic if swallowed. Causes digestive tract burns.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Caustic Potash 45%	607 mg/kg estimated (Rat)	-	-
Potassium Hydroxide 1310-58-3	273 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms	Burning pain and severe corrosive skin damage. Diarrhea. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.
-----------------	---

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	Not classifiable as a human carcinogen.
------------------------	---

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Caustic Potash 45%		177.7778 mg/l, 96h estimated		
Potassium Hydroxide 1310-58-3		Western mosquito fish (Gambusia affinis) 80 mg/l, 96 hours		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

No data available.

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1814
Proper Shipping Name Potassium hydroxide, solution
Hazard Class 8
Packing Group II

IATA

UN/ID No UN1814
Proper Shipping Name Potassium hydroxide, solution
Hazard Class 8
Packing Group II

IMDG

UN/ID No UN1814
Proper Shipping Name Potassium hydroxide, solution
Hazard Class 8
Packing Group II

15. REGULATORY INFORMATION**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Potassium Hydroxide	Listed	Listed	Listed	Listed		Listed	Listed	X	Listed	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Not listed

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium Hydroxide	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

3

0

1

B

Issue Date: 01-Feb-2012
Revision Date: 12-Apr-2016
Revision Note: New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet