Safety Data Sheet

Issue Date: 01-Feb-2012 **Revision Date:** 14- APR-2016 **Version** 1

1. IDENTIFICATION

Product Identifier

Product Name Foamy

Other means of identification

SDS # 737

Product Code 737

UN/ID No UN1814

Recommended use of the chemical and restrictions on use

Recommended Use Professional & 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	< 20
Sodium Hydroxide	1310-73-2	< 20

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 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.

Small Spills: Wipe up with absorbent material (e.g, cloth, fleece). Clean surface thoroughly to remove residual contamination.

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/m3	-	TWA 2 mg/m3

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		
Appearance	Clear liquid	**Odor**	Odorless
Color	Colorless	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
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 pods, 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	X	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

CERCLA
Potassium Hydroxide (CAS 1310-58-3) Listed

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**
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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