MATERIAL SAFETY DATA SHEET

PRODUCT NAME:

Biofoam

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SAFETY DATA SHEET

Section 1. Identification

Product identifier : BIOFOAM

Material Number : 57804674

Identified uses : Cleaning agents

Supplier/Manufacturer : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112

For Information: US/Canada (800) LANXESS)
International: +1 412 809 1000

In case of emergency : CHEMTREC (800) 424 9300
International (703) 527 3887
Lanxess Emergency Phone: (866) 673 6350

Section 2. Hazard identification

HAZCOM Standard Status : This material is considered hazardous by the Workplace Hazardous Materials Information System (WHMIS) 2015 requirements as defined in the Hazardous Product Act (HPA) and the Hazardous Products Regulations (HPR).

Physical state : Liquid.

Color : Yellow [Light]

Classification of the substance or mixture : SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A

Hazard pictograms :

Signal word : Warning

Hazard statements : Causes serious eye irritation.
Causes skin irritation.

Precautionary statements

Prevention : Wear protective gloves and eye/face protection. Wash hands thoroughly after handling.

Response : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 8.8%

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
sulphamic acid	≤13	5329-14-6
Alcohols, C9-11, ethoxylated	≤6.6	68439-46-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of first aid measures

Eye contact : Check for and remove any contact lenses. Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained professional, using a pocket type respirator.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact, flush skin with plenty of water for at least 20 minutes.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes skin irritation.

Ingestion : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

Inhalation : No specific data.

Skin contact : Causes irritation with symptoms of reddening, itching, and swelling.

Section 4. First-aid measures

Ingestion : May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

No known significant effects or critical hazards.

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protection of first-aiders : No special measures required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limit value known.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.

Skin protection : Permeation resistant clothing and foot protection. Permeation resistant gloves.

Eye/face protection : chemical splash goggles.

Medical Surveillance : Not available.

Section 9. Physical and chemical properties

Physical state : Liquid.

Color : Yellow [Light]

Odor : Characteristic.

Odor threshold : Not available.

pH : 2 to 2.3 [Conc. (% w/w): 1%]

Boiling point : Not available.

Melting point : Not available.

Flash point : Closed cup: >100°C (>212°F)

Evaporation rate : Not available.

Explosion limits : Not available.

Vapor pressure : Not available.

Density : 1.05 to 1.06 g/cm³

Section 9. Physical and chemical properties

Specific gravity (Relative density) : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : Not available.

Vapor density : Not available.

Viscosity : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : Causes skin irritation.

Ingestion : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

Inhalation : No specific data.

Skin contact : Causes irritation with symptoms of reddening, itching, and swelling.

Ingestion : May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Section 11. Toxicological information

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
sulphamic acid	LD50 Oral	Rat	>2000 mg/kg	-	OECD 401 Acute Oral Toxicity
Alcohols, C9-11, ethoxylated	LD50 Oral	Rat	2000 to 5000 mg/kg	-	-
sulphamic acid	LD50 Dermal	Rat - Male, Female	>2000 mg/kg bw/day	-	OECD 402 Acute Dermal Toxicity
Alcohols, C9-11, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg	-	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
sulphamic acid	Eyes - Cornea opacity	Rabbit	2	-	4 hours	Fully reversible
	Eyes - Redness of the conjunctivae	Rabbit	1.5	-	7 days	Fully reversible
	Eyes - Edema of the conjunctivae	Rabbit	1.5	-	7 days	Fully reversible in more than 7 days

Conclusion/Summary

Skin : sulphamic acid:irritant (Rabbit) OECD 404 Acute Dermal Irritation/Corrosion
Alcohols, C9-11, ethoxylated:Slight irritant

Eyes : sulphamic acid:Moderate irritant , OECD 405 Acute Eye Irritation/Corrosion
Alcohols, C9-11, ethoxylated:Risk of serious damage to eyes.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Alcohols, C9-11, ethoxylated	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin : sulphamic acid:Not sensitizing to the skin in an animal study.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
sulphamic acid	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: With and Without	Negative
	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: With and Without	Negative
	OECD 476 *In vitro* Mammalian Cell Gene	Experiment: In vitro Subject: Mammalian-Animal	Negative

Section 11. Toxicological information

	Mutation Test OECD 476 *In vitro* Mammalian Cell Gene Mutation Test OECD 487 *In vitro* Micronucleus Test	Metabolic activation: With and Without Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: With and Without Experiment: In vitro Subject: Mammalian-Human Metabolic activation: with and without	 Negative Negative

Carcinogenicity

Conclusion/Summary : Alcohols, C9-11, ethoxylated:No carcinogenic effect.

Product/ingredient name	CAS #	IARC	NTP	OSHA
sulphamic acid	5329-14-6	Not classified.	Not classified.	Not classified.
Alcohols, C9-11, ethoxylated	68439-46-3	Not classified.	Not classified.	Not classified.

Reproductive toxicity

Conclusion/Summary : Alcohols, C9-11, ethoxylated:Did not show mutagenic or teratogenic effects in animal experiments.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
sulphamic acid	Category 3	Not applicable.	Respiratory tract irritation
Alcohols, C9-11, ethoxylated	Category 3	Not applicable.	Respiratory tract irritation

Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Oral	22000 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Test	Result	Species	Exposure
sulphamic acid	OECD 201 Alga, Growth Inhibition Test	Acute EC50 48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	OECD 202 *Daphnia* sp. Acute Immobilization Test	Acute EC50 71.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50 >200 mg/l Fresh water	Micro-organism	3 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 70.3 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	OECD 201 Alga, Growth Inhibition Test	Chronic EC10 29.5 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	OECD 201 Alga, Growth Inhibition Test	Chronic NOEC 18 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
Alcohols, C9-11, ethoxylated	-	Acute LC50 1 to 10 mg/l Fresh water	Algae	72 hours
	-	Acute LC50 1 to 10 mg/l Fresh water	Crustaceans	96 hours

Section 12. Ecological information

	- -	Acute LC50 1 to 10 mg/l Fresh water Acute LC50 >100 mg/l Fresh water	Fish Micro-organism	96 hours 3 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Alcohols, C9-11, ethoxylated	-	80 % - Readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Alcohols, C9-11, ethoxylated	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Not available.			

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

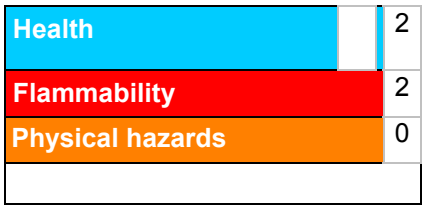
PG* : Packing group

Section 15. Regulatory information

CEPA Status : All components of this product are on the Canadian DSL list.

U.S. Toxic Substances Control Act : Listed on the TSCA Inventory.

Hazardous Material Information System :



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme *=Chronic

National Fire Protection Association (U.S.A.) :

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

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Section 16. Other information

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Prepared by : Product Safety and Regulatory Affairs

Indicates information that has changed from previously issued version.

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