

SECTION 1: CHEMICAL PRODUCT - COMPANY IDENTIFICATION

SOS Environmental (940) 720-6643
 811 6th Street
 Suite 130
 Wichita, Texas 76301

SUBSTANCE: GeoFlush™
TRADE NAMES/SYNONYMS: none
CHEMICAL FAMILY: ethoxylated alcohol
MSDS CREATION DATE: 1 Jan 14
SDS REVISION DATE: 1 Jun 15

SECTION 2: HAZARDS IDENTIFICATION

Physical Hazard Not classified.
 Health Hazard Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 1
 Environmental Hazard Hazardous to the aquatic environment, acute hazard, Category 2
 Hazardous to the aquatic environment, long-term hazard, Category 3
 Emergency Overview May be harmful if swallowed. May cause eye and skin irritation. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Hazard Pictogram



Signal Word Danger
 Precautionary Statements
 General Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
 Prevention Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.
 Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison enter/doctor. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
 Storage Store away from incompatible materials.
 Handling Dispose of contents/container in accordance with local/regional/national/international regulations
 Hazards not otherwise classified None known.



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SECTION 3: HAZARDS IDENTIFICATION

The composition information and/or the composition of one of the components of this product is proprietary. This product is not hazardous as defined in 29 CFR 1910.1200. In the event of a medical emergency, spill or fire, compositional information will be revealed to responding emergency personnel.

COMPONENTS	CAS NUMBER	RTECS NUMBER	PERCENTAGE
ethoxylated alcohol proprietary additives, surfactants, and water.	68439-46-3	proprietary	proprietary

SECTION 4: FIRST AID MEASURES

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
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.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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
Methods and materials for containment and cleaning up	. Large Spills: Stop the flow of material, if this is without risk. 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 product from entering drains. 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. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS)

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS	NO EXPOSURE LIMITS NOTED FOR INGREDIENT(S).
BIOLOGICAL LIMIT VALUES	NO BIOLOGICAL EXPOSURE LIMITS NOTED FOR THE INGREDIENT(S).
APPROPRIATE 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.
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT	
EYE/FACE PROTECTION	WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES) AND A FACE SHIELD.



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HAND PROTECTION	WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES.
SKIN PROTECTION	OTHER WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. WEAR PROTECTIVE GLOVES.
RESPIRATORY PROTECTION	IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT
THERMAL HAZARDS	WEAR APPROPRIATE THERMAL PROTECTIVE CLOTHING, WHEN NECESSARY.
GENERAL HYGIENE CONSIDERATIONS	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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Form	Liquid
Color	Hazy liquid
Odor	mild odor
Odor threshold	Not available
pH	. 5.5000 - 6.5000 (in 1% Aqueous)
Melting point/freezing point	59 °F (15 °C)
Initial boiling point and boiling range	> 491 F (>255 C)
Flash point	318.2 °F (159 °C)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility (water)	Complete
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Pour point	59 °F (15 °C)
Specific gravity	.09811@ 25°C

SECTION 10: STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.



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Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point.
Contact with incompatible materials	Incompatible materials Strong oxidizing agents
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage
Symptoms related to the physical, chemical and toxicological characteristics	Not available.
Acute toxicity	
LD50 Rabbit Dermal	> 2000 mg/kg
LD50 Rat Oral	> 2000 mg/kg
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity single exposure	Not applicable.
Specific target organ toxicity -repeated exposure	Not applicable.
Aspiration hazard	Not applicable.

SECTION 12: ECOLOGICAL INFORMATION
ECOTOXICITY EFFECTS

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish – Components - Alcohols, C9-11, ethoxylated LC50 (96 h) : 8.5 mg/l

Species : Fathead minnow (*Pimephales promelas*).

TOXICITY TO DAPHNIA – Components - Alcohols, C9-11, ethoxylated EC50 (48 h) : 5.3 mg/l

Species : *Daphnia*

TOXICITY TO OTHER ORGANISMS : No data available.

PERSISTENCE AND DEGRADABILITY

Biodegradability : No data is available on the product itself.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

SECTION 13: DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
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.

SECTION 14: TRANSPORT INFORMATION

DOT - Not dangerous goods

IATA - Not dangerous goods

IMDG - Not dangerous goods

TDG - Not dangerous goods

FURTHER INFORMATION - Not classified as dangerous in the meaning of transport regulations.

The transportation information is not intended to convey all specific regulatory data relating to this material.

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA) 12(B) COMPONENT(S): - None.

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1 200) HAZARD CLASS(ES) - Irritant.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification

Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

WHMIS Hazard Classification

Toxic Material Causing Other Toxic Effects

This product meets the criteria of the US EPA Design for Environment (DfE) Surfactant screen and is listed on CleanGredients.

SECTION 16: OTHER INFORMATION

HMIS Rating

Health : 2

Flammability : 1

Physical hazard : 0



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Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

SOS Environmental, Incorporated reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging, and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product