

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Trade Name:	Enviro Spud Sticks
MSDS Code:	F214136
Chemical Description:	Product based on alkyl ether sulfates in glycol carrier.
Recommended Use:	Drilling Fluid Additive
Restrictions on Use:	None known
Supplier:	Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1
Phone Number:	780-962-9490
Emergency Phone Number:	CHEMTREC – Phone +1-800-424-9300

Section 2: HAZARD(S) IDENTIFICATION

Classification of the Chemical

Following GHS and Within the Meaning of 29 CFR 1910.1200 (OSHA)

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

Label Elements

Following GHS and Within the Meaning of 29 CFR 1910.1200 (OSHA)

Hazard Pictograms: None

Hazard Statements: H415 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P273: Avoid release to the environment.

P501: Dispose of contents/container in accordance with applicable regulations.

Special Provisions: None

Ingredient(s) with Unknown Acute Toxicity: None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:	N/A
Mixtures:	Hazardous components within the meaning of 29 CFR 1910.1200 and related classification: $\geq 25\%$ - $<50\%$ Alkyl ether sulfate.
Index Number:	Not available
CAS:	Trade Secret
EC:	Not applicable

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Section 4: FIRST-AID MEASURES

Description of First-Aid Measures

In Case of Skin Contact:	Wash with plenty of water and soap.
In Case of Eye Contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In Case of Ingestion:	Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
In Case of Inhalation:	Remove casualty to fresh air and keep warm and at rest.
Most Important Symptoms/Effects, Acute and Delayed:	None
Indication of Immediate Medical Attention and Special Treatment Needed:	None

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water, Carbon Dioxide (CO2)
Unsuitable Extinguishing Media:	Not known
Specific Hazards arising from the Chemical:	Do not inhale explosion and combustion gases. Burning produces heavy smoke.
Hazardous Combustion Products:	None
Special Protective Equipment and Precautions for Fire-Fighters:	Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Wear personal protection equipment. Remove persons to safety. See protective measures under Point 7 and 8.
Methods and Material for Containment and Cleaning Up	Wash with plenty of water.

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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes, inhalation of vapours and mists. Do not use on extensive surface areas in premises where there are occupants. Do not use empty container before they have been cleaned. Before making transfer operations, assure that there are not any incompatible material residuals in the containers. See also Section 8 for recommended protective equipment.
Advice on General Hygiene:	Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working.
Conditions for Safe Storage, Including any Incompatibilities:	Keep away from food, drink and feed
Incompatible Materials:	Strong oxidizers
Instructions as regards storage premises:	Adequate ventilation in working area
Packaging Suggested:	Sticks
Storage Temperature:	Store at ambient temperature
Protect Against External Exposure, Such as:	Heat, direct irradiation, humidity

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:	No occupational exposure limit available.
Appropriate Engineering Controls:	None
Individual Protection Measures	
Eye Protection:	Use close fitting safety glasses (ANSI Z87.1 or approved equivalent); don't use eye lens.
Protection for Skin:	Use clothing that provides comprehensive protection to the skin. Select approved equipment and suitable material.
Protection for Hands:	Chemical-resistant protective gloves. When prolonged or frequently repeated contact may occur, a glove is recommended to prevent contact.
Respiratory Protection:	Use adequate protective respiratory equipment. Select NIOSH/MSHA approved equipment.
Thermal Hazards:	None

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method	Notes
Appearance and Colour	Solid, waxy stick	--	--
Odour	Slight	--	--
Odour Threshold	N.D.	--	--
pH	7.5 – 8.5	ASTM E70	--
Melting Point/Freezing Point:	N.D.	--	--
Kinematic Viscosity	N.D.	--	--
Initial Boiling Point and Boiling Range	N.D.	--	--
Solid/Gas Flammability	N.D.	--	--
Upper/Lower Flammability or Explosive Limits	N.D.	--	--
Vapour Density	N.D.	--	--
Flash Point	> 100C (>212F)	ASTM D6450	--
Evaporation Rate	N.D.	--	--
Vapour Pressure	N.D.	--	--
Relative Density	0.86 – 0.96	ASTM D4052	--
Solubility in Water	Soluble	ASTM D1722	--
Solubility in Oil	N.D.	--	--
Partition coefficient (n-Octanol/Water)	N.D.	--	--
Auto-Ignition Temperature	N.D.	--	--
Decomposition Temperature	N.D.	--	--
Viscosity	N.D.	--	--
Miscibility	N.D.	--	--
Fat Solubility	N.D.	--	--
Conductivity	N.D.	--	--
Substance Groups Relevant Properties	--	--	--

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Section 10: STABILITY AND REACTIVITY

Reactivity:	As organic product, dust may form explosive mixture in dispersed in air. Keep away from ignition sources and adopt usual precautions to avoid dust explosion.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Stable under normal conditions.
Conditions to Avoid:	Stable under normal conditions.
Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	Not known

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Toxicological Information of The Product:

Acute Toxicity:	Not classified. The classification criteria are not met. Toxicity Oral Rat LD50 >2000 mg/kg – source: Literature data
Skin Corrosion/Irritation:	Not classified. The classification criteria are not met. Irritation skin: Repeated and prolonged contact may cause slight irritation.
Serious Eye Damage/Irritation:	Not classified. The classification criteria are not met. Irritation Eye: Repeated and prolonged contacts may cause slight irritation.
Respiratory or Skin Sensitisation:	Not classified. The classification criteria are not met.
Germ Cell Mutagenicity:	Not classified. The classification criteria are not met.
Carcinogenicity:	Not classified. The classification criteria are not met.
Reproductive Toxicity:	Not classified. The classification criteria are not met.
STOT – Single Exposure:	Not classified. The classification criteria are not met.
STOT – Repeated Exposure:	Not classified. The classification criteria are not met.
Aspiration Hazard:	Not classified. The classification criteria are not met.
Toxicological Information of the Main Substances Found in The Product:	N.D.
Substance(s) Listed on The NTP Report on Carcinogens:	N.D.
Substance(s) Listed on The IARC Monographs:	N.D.
Substance(s) Listed as OSHA Carcinogen(s):	N.D.

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Substance(s) Listed as N.D.
NIOSH Carcinogen(s):

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ecological Information of the Mixture:

Aquatic Acute Toxicity: EC50/LC50 > 10 - <100 mg/l – aquatic species – Notes: According to the criteria of the GHS.

Persistence and Degradability

Ecological Information of the Mixture:

Biodegradability: Data not available

Bioaccumulative Potential

Ecological Information of The Mixture

Bioaccumulation: Data not available

Mobility in Soil

Ecological Information of The Mixture

Mobility in Soil: Data not available

Other Adverse Effects: None, Use according to criteria of good industrial practice, avoiding product dispersion in the environment.

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment and Disposal Methods: If possible recover the product, otherwise dispose of in authorized landfill or incineration in accordance with local regulation.

Section 14: TRANSPORT INFORMATION

UN Number: Not classified as dangerous in the meaning of transport regulations.

UN Proper Shipping Name: Not regulated

Transport Hazard Class(es): N.A.

Packing Group: N.A.

Environmental Hazards: N.A.

Special Precautions for User: N.A.

Transport in Bulk According to Annex II of MARPOL and the IBC Code: N.A.

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Section 15: REGULATORY INFORMATION

USA – Federal Regulations

TSCA – Toxic Substances Control Act

TSCA Inventory: All the components are listed on the TSCA Inventory.

TSCA Listed Substances: Alkyl ether sulfate is listed in TSCA Section 8b

SARA – Superfund Amendments and Reauthorization Act

Section 302: Extremely Hazardous Substances: No substances listed.

Section 304: Hazardous Substances: No substances listed.

Section 313: Toxic Chemicals List: No substances listed.

Section 311/312 Title III: Not-hazardous

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act: No substances listed

CAA – Clean Air Act: CAA Listed Substances: None

CWA – Clean Water Act: CWA Listed Substances: None

USA – State Specific Regulations

California Proposition 65: Substance(s) listed under California Proposition 65: None

Massachusetts Right to Know: Substance(s) listed under Massachusetts Right to Know: No substances listed.

New Jersey Right to Know: Substance(s) listed under New Jersey Right to Know: No substances listed.

Pennsylvania Right to Know: Substance(s) listed under Pennsylvania Right to Know: No substances listed.

Regulatory Information USA:

HMIS Information

		Hazard Index:
Health	1	4 = Severe
Flammability	1	3 = Serious
Reactivity:	1	2 = Moderate
Personal Prot.:	B	1 = Slight
B* Safety Glasses, Gloves.		0 = Minimal

Canadian Regulation: All the ingredients as such or as chemical group are registered in DSL.

Canadian WHMIS: Not-hazardous

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Section 16: OTHER INFORMATION

Full Text of Phrases Referred to in Section 3:

H412 Harmful to aquatic life with long lasting effects.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute Toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (Division of the American Chemical Society)
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived no effect level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals.
HMIS:	Hazardous Materials Identification System.
IARC:	International Agency for Research on Cancer.
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI	Technical Instructions by the "International Civil Aviation Organization (ICAO)"
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
Kst:	Explosion coefficient.
LC50:	Lethal Concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not applicable
N.D.:	No data available
NFPA:	National Fire Protection Institute
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure Limit
STOT:	Specific Target Organ Toxicity

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TLV: Threshold Limiting Value.
TWA: Time-weighted average

Disclaimer:

The product must be stored, handled and used according to criteria of good industrial practice and to regulations in force. This leaflet is offered for your consideration and guidance only. This leaflet complements the Technical Data Sheet but does not replace it. The information herein contained is given to the best of our knowledge at the time of issue. Due to the several ways in which the product may be used and the possible interaction with variables not depending on or unknown to the supplier, we also cannot accept any liability whatsoever for any loss or damage however arising from the handling and use of our products.

Prepared by: Bri-Chem Supply Ltd.
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