

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Generic Name:	Radiagreen EBL
Product Form:	Mixture
REACH Number:	All the ingredients of this product in the scope of Regulation 1907/2006/EC (REACH), if not exempted, have been registered.
C&L Notification Reference No:	All the ingredients of this product in the scope of Regulation 1272/2008/EC (CLP), if not exempted, have been notified to the C&L Inventory.
Main Use:	Drilling Fluid Additive
Uses Advised Against:	No Additional Information Available
Supplier:	Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1
Phone Number:	780-962-9490
Emergency Phone:	CHEMTREC 1-800-424-9300, 24/7

Section 2: HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP]: Not classified

Adverse Physicochemical, Human Health and Environmental Effects: Not classified as dangerous according to the criteria of Australian NOHSC (not hazardous; not dangerous goods). According to ABNT NBR 14725-2, no labeling obligation.

Label Elements

Label According to Regulation (EC) No. 1272/2008 [CLP]: No labelling applicable

Other Hazards

Other Hazards Which do not Result in Classification: None under normal conditions

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

SAFETY DATA SHEET

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:	Not applicable		
Mixtures			
Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Fatty Esters (Constituent)	-	> 60	Not classified
Specialty Chemicals (Constituent)	-	< 40	Not classified

Section 4: FIRST-AID MEASURES

First-Aid Measures General:	If you feel unwell, seek medical advice.
First-Aid Measures after Inhalation:	Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.
First-Aid Measures after Skin Contact:	Wash off immediately with soap and plenty of water. If irritation persists, consult a doctor.
First-Aid Measures After Eye Contact:	Rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists.
First-Aid Measures after Ingestion:	Rinse mouth out with water. Get medical advice/attention if you feel unwell.
Most Important Symptoms and Effects, both Acute and Delayed	
Symptoms/Effects:	Unlikely
Indication of any Immediate Medical Attention and Special Treatment Needed:	No supplementary information available.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media:	AFFF foam. BC-powder. Carbon dioxide. Dry sand. Dry chemical powder. Use the extinguishing media recommended for the burning materials and fire situation.
Unsuitable Extinguishing Media:	Solid water jet ineffective as extinguishing medium.
Special Hazards Arising from the Substance or Mixture	
Fire Hazard:	DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Heating increases the fire hazard. Temperature above flashpoint: higher fire/explosion hazard.
Explosion Hazard:	No direct explosion hazard.
Reactivity in Case of Fire:	On burning: release of carbon monoxide/carbon dioxide.
Advice for Firefighters:	Other Information: No supplementary information available.

SAFETY DATA SHEET

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Mark the danger area. Exposure to fire/heat: have neighbourhood close doors and windows. Exposure to fire/heat: consider evacuation. Wash contaminated clothing before reuse.

For Non-Emergency Personnel

Protective Equipment: See "Material-Handling" to select protective clothing.

For Emergency Responders

Protective Equipment: Use protective measures listed in Section 8.

Environmental Precautions: Prevent soil and water pollution.

Methods and Materials for Containment and Cleaning Up

Methods for Cleaning Up: Clean contaminated surfaces with a soap solution. Flush/dilute with water. Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite, powdered limestone.

Other Information: No supplementary information available.

Reference to Other Sections: Handle waste materials in accordance with the provisions of Section 13.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Handling: Smoking, eating and drinking should be prohibited in areas of storage and use.

Handling Temperature: ≥ 10 °C above melting point

Hygiene Measures: Wash hands before work breaks and after finishing work. Good standard of personal hygiene

Conditions for Safe Storage, Including any Incompatibilities

Information on Mixed Storage: No supplementary information available.

Storage Areas: Keep container in a well-ventilated place. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.

Special Rules on Packaging: Store in a closed container. Suitably labelled. Meet the legal requirements.

Packaging Materials: No supplementary information available.

Specific End Use(s): No additional information available

SAFETY DATA SHEET

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

National Occupational Exposure and Biological Limit Values: No additional information available

Recommended Monitoring Procedures: No additional information available

Air Contaminants Formed: No additional information available

DNEL and PNEC: No additional information available

Control Banding: No additional information available

Exposure Controls

Appropriate Engineering Controls: No additional information available

Personal Protective Equipment

Personal Protective Equipment: Gloves. Protective clothing. Safety glasses.

Personal Protective Equipment Symbol(s):



Eye and Face Protection: No additional information available

Skin Protection

Other Skin Protection: Materials for protective clothing: Good resistance nitrile rubber

Respiratory Protection: No additional information available

Thermal Hazards: No additional information available

Environmental Exposure Controls

Other Information: NOHSC Exposure Standards: no exposure standard applicable according to HSIS.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Colour: Yellow-amber

Appearance (Room Temperature): Liquid

Odour: Sweet. Characteristic

Odour Threshold: Not available

Melting Point: < -15°C

Freezing Point: Not available

SAFETY DATA SHEET

Boiling Point:	> 250°C
HMIS Flammability:	Not available
Explosive Properties:	Product is not explosive
Explosive Limits:	Not available
Lower Explosion Limit:	Not available
Upper Explosion Limit:	Not available
Flash Point:	> 200°C (ASTM D92)
Auto-Ignition Temperature:	> 300°C
Decomposition Temperature:	> Flash point
pH:	5 – 8
Viscosity, Kinematic:	ca. 120 mm ² /s (40°C)
Solubility:	Insoluble in water
Partition Coefficient n-octanol/water (Log Kow):	Not available
Partition Coefficient n-octanol/water (Log Kow):	> 5
Vapour Pressure:	No supplementary information available
Vapour Pressure at 50°C:	Not available
Density:	ca. 983.2 kg/m ³ (20°C)
Relative Density:	Not available
Relative Vapour Density at 20°C:	Not available
Particle Characteristics:	Not applicable
Fatty Esters	
Vapour Pressure:	No supplementary information available
Other Information	
Information with Regard to Physical Hazard Classes:	No additional information available
Other Safety Characteristics	
VOC Content:	< 0.1 % (1999/13/EC; 2004/42/EC; 2010/75/EU)
Other Properties:	Oily, Soluble in oils/fats, Soluble in most organic solvents, Insoluble in water

SAFETY DATA SHEET

Section 10: STABILITY AND REACTIVITY

Reactivity:	On burning: release of carbon monoxide/carbon dioxide.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No additional information available
Conditions to Avoid:	No supplementary information available.
Incompatible Materials:	No supplementary information available.
Hazardous Decomposition Products:	No supplementary information available.

Section 11: TOXICOLOGICAL INFORMATION

Information on Hazard Classes as Defined in Regulation (EC) No 1272/2008

Acute Toxicity (Oral):	Not classified
Acute Toxicity (Dermal):	Not classified
Acute Toxicity (Inhalation):	Not classified
RADIAGREEN EME SALT	
LD50 Oral Rat:	> 5000 mg/kg non-toxic
Fatty Esters	
LD50 Oral Rat	> 5000 mg/kg non-toxic
Specialty Chemicals	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
Skin Corrosion/Irritation:	Not classified pH: 5-8
Serious Eye Damage/Irritation:	Not classified pH: 5-8
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
STOT – Single Exposure:	Not classified
STOT – Repeated Exposure:	Not classified
Aspiration Hazard:	Not classified

SAFETY DATA SHEET

Fatty Esters

Viscosity, Kinematic ca. 80 mm²/s @40°C (75-90)

Specialty Chemicals

Viscosity, Kinematic ca. 912.698 mm²/s

Information on Other Hazards: No additional information available

Section 12: ECOLOGICAL INFORMATION

Ecology - General: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Ecology – Air: No supplementary handling or disposal.

Ecology – Water: No bioaccumulation data available.

Hazardous to the Aquatic Environment, Short-Term (Acute): Not classified

Hazardous to the Aquatic Environment, Long-Term (Acute): Not classified

Persistence and Degradability

Fatty Esters

Biodegradation 88.1 % (OECD 301B- BfB report OL58506.01.01 - 02/2006)

Bioaccumulative Potential

RADIAGREEN EME SALT

Partition Coefficient n-Octanol/Water (Log Pow): Fatty Esters > 5

Partition Coefficient n-Octanol/Water (Log Pow): > 5

Mobility in Soil: No additional information available

Results of PBT and vPvB Assessment: No additional information available

Endocrine Disrupting Properties: No additional information available

Other Adverse Effects: No additional information available

SAFETY DATA SHEET

Section 13: DISPOSAL CONSIDERATIONS

Disposal:	Prevent dispersion by covering with dry absorbent, Scoop solid spill into closing containers, Scoop absorbed substance into closing containers, Clean contaminated surfaces with an excess of water and soap solution, Wash clothing and equipment after handling.
Regional Legislation (Waste):	No supplementary information available.
Ecology – Waste Materials:	Do not discharge into drains or the environment. Remove to an authorized waste treatment plant.
European List of Waste (LoW) Code:	No supplementary information available
HP Code:	HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

Section 14: TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID

UN Number or ID Number

UN – No (ADR):	UN No dangerous good in sense of transport regulations (including Australian DG Code)
UN-No. (IMDG)	Not applicable
UN-No. (IATA):	Not applicable
UN-No. (ADN):	Not applicable
UN-No. (RID):	Not applicable

UN Proper Shipping Name

Proper Shipping Name (ADR):	Not applicable
Proper Shipping Name (IMDG):	Not applicable
Proper Shipping Name (IATA):	Not applicable
Proper Shipping Name (ADN):	Not applicable
Proper Shipping Name (RID):	Not applicable

Transport Document Description (ADR):	UN No dangerous good in sense of transport regulations (including Australian DG Code)
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Transport Hazard Class(es)

ADR Transport Hazard Class(es) (ADR):	Not applicable
IMDG Transport Hazard Class(es) (IMDG):	-

SAFETY DATA SHEET

IATA Transport Hazard Class(es) (IATA):	Not applicable
AND Transport Hazard Class(es) (AND):	Not applicable
RID Transport Hazard Class(es) (RID):	Not applicable
Packing Group	
Packing Group (ADR):	Not applicable
Packing Group (IMDG):	Not applicable
Packing Group (IATA):	Not applicable
Packing Group (ADN):	Not applicable
Packing Group (RID):	Not applicable
Environmental Hazards	
Dangerous for the Environment:	No
Marine Pollutant:	No
Other Information:	Marine pollutant: no
Special Precautions for User	
Overland Transport	
Transport Regulations (ADR):	Not subject
Transport by Sea	
Transport Regulations (IMDG):	Not subject
Air Transport	
Transport Regulations (IATA)	Not subject
Rail Transport	
Transport Regulations (RID):	Not subject
Inland Waterway Transport:	No data available
Maritime Transport in Bulk According to IMO Instruments:	Not applicable

SAFETY DATA SHEET

Section 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

EU-Regulations

REACH Annex XVII (Restriction List):	Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions).
REACH Annex XIV (Authorisation List):	Contains no substance(s) listed on REACH Annex XIV (Authorisation List).
REACH Candidate List (SVHC):	Contains no substance(s) listed on the REACH Candidate List.
PIC Regulation (Prior Informed Consent):	Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).
POP Regulation (Persistent Organic Pollutants):	Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).
Ozone Regulation (1005/2009):	Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer).
VOC Directive (2004/42)	
VOC Content:	< 0.1 % (1999/13/EC; 2004/42/EC; 2010/75/EU)
Explosives Precursors Regulation (2019/1148):	Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).
Drug Precursors Regulation (273/2004):	Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

National Regulations

Chemical Inventories:	Compliant with AIIIC, DSL, EAEU, ECST, EU REACH, IECSC, KECL, NZIoC, TSCA, VNCI
KKDIK Number (Turkey):	All the ingredients of this product in the scope of KKDIK, if not exempted, have been (pre-)registered.
K-REACH (Korea):	Not all the ingredients of this product in the scope of K-REACH have been (pre-)registered.
UK-REACH (Great Britain):	Not all the ingredients of this product in the scope of UK-REACH have been notified.

Germany

Water Hazard Class (WGK):	Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).
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SAFETY DATA SHEET

Hazardous Incident Ordinance (12. BImSchV):	Is not subject of the Hazardous Incident Ordinance (12. BImSchV).
Netherlands	
ABM Category:	A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment.
SZW-lijst van kankerverwekkende stoffen:	None of the components are listed.
SZW-lijst van mutagene stoffen:	None of the components are listed.
SZW-lijst van reprotoxische stoffen – Borstvoeding:	None of the components are listed.
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid:	None of the components are listed.
SZW-lijst van reprotoxische stoffen – Ontwikkeling:	None of the components are listed.
Denmark:	
Danish Product Registration Number:	3462615
Switzerland	
Storage Class (LK):	LK 10/12 – Liquids
Chemical Safety Assessment:	No additional information available.

Section 16: OTHER INFORMATION

Training Advice:	No supplementary information available.
Chem. Inventories Legend:	AIIC = Australian Inventory of Industrial Chemicals DSL = Canadian Domestic Substances List EAEU = Eurasian Economic Union Unified list of chemicals ECST = Existing Chemical Substances Inventory of Taiwan EU REACH = European Union REACH Regulation 1907/2006 IECSC = Inventory of Existing Chemicals Substances in China KECL = Korean Existing Chemical List NZIoC = New Zealand Inventory of Chemicals TSCA (Active) = USA Toxic Substances Control Act VNCI = Vietnam National Chemicals Inventory

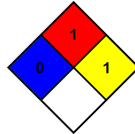
SAFETY DATA SHEET

NFPA Health Hazard: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA Fire Hazard: 1 - Materials that must be preheated before ignition can occur.

NFPA Reactivity: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

NFPA Image:



Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

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