

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Hyper Drill AF 247 RD
Type of Product: Mixture
Identified Uses: Drilling Fluid Additive
Uses Advised Against: None
Supplier: Bri-Chem Supply Ltd.
27075 Acheson Road
Acheson, AB T7X 6B1
Phone Number: 780-962-9490
Emergency Telephone: CHEMTREC 1-800-424-9300 24/7

Section 2: HAZARD(S) IDENTIFICATION

Classification According to Part 2 of Hazardous Products Regulations: Not classified
Label Elements
Hazard Symbol(s): None
Signal Word: None
Hazard Statement(s): None
Precautionary Statement(s): None
Other Hazards: Aqueous solutions or powders that become wet render surfaces extremely slippery.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances: Not applicable, this product is a mixture.
Mixtures
Hazardous Components: Contains no reportable hazardous substances.

Section 4: FIRST-AID MEASURES

Description of First-Aid Measures

Inhalation: Move to fresh air. No hazards which require special first aid measures.
Skin Contact: Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of persistent eye irritation, consult a physician.

SAFETY DATA SHEET

Ingestion:	Rinse mouth with water, Do NOT induce vomiting. Get medical attention if symptoms occur.
Most Important Symptoms/Effects, Acute and Delayed:	Powder can cause localised skin irritation in folds of the skin of under tight clothing. Moderate eye irritation due to effects all powders have on conjunctivae.
Indication of Any Immediate Medical Attention and Special Treatment Needed:	None reasonably foreseeable.
Other Information:	Aqueous solutions or powders that become wet render surfaces extremely slippery.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water. Water spray. Foam. Carbon dioxide (CO₂). Dry powder. Warning! Aqueous solutions or powders that become wet render surfaces extremely slippery.

Unsuitable Extinguishing Media: None known

Special Hazards Arising from The Substance or Mixture

Hazardous Decomposition Products: Thermal decomposition may produce nitrogen oxides (NO_x), carbon oxides (CO_x), ammonia (NH₃), hydrogen cyanide (hydrocyanic acid) may be products in the event of combustion in an oxygen deficient atmosphere.

Protective Measures: In the event of fire, wear self-contained breathing apparatus.

Other Information: Aqueous solutions or powders that become wet render surfaces extremely slippery.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Aqueous solutions or powders that become wet render surfaces extremely slippery.

Protective Equipment: Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection)

Emergency Procedures: Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

Environmental Precautions: As with all chemical products, do not flush into surface water.

SAFETY DATA SHEET

Methods and Materials for Containment and Cleaning Up

Small Spills:	Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Large Spills:	Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Residues:	After cleaning, flush away traces with water.
Reference to Other Sections:	Section 7: Handling and storage; Section 8: Exposure controls/personal protection; Section 13: Disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Aqueous solutions or powders that become wet render surfaces extremely slippery. Use personal protective equipment.
Conditions for Safe Storage, Including any Incompatibilities:	Keep in a dry place. Keep container closed when not in use. Incompatible with strong bases and oxidizing agents.
Specific End Use(s)	This information is not available

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: None known

Exposure Controls

Appropriate Engineering Controls: Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection: Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection: Hand Protection: PVC or other plastic material gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.
Other: Work clothes protecting arms, legs and body. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SAFETY DATA SHEET

Respiratory Protection:	No personal respiratory protective equipment normally required. Dust safety masks recommended where working powder concentration is more than 10 mg/m ³ . Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Additional Advice:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Do not allow uncontrolled discharge of product into the environment.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granular solid, White
Odour:	None
Odour Threshold:	Not applicable
pH:	5 – 9 @ 5 g/L (See Technical Bulletin or Product Specifications for a more precise value, if available)
Melting Point/Freezing Point:	> 150°C
Initial Boiling Point and Boiling Range:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability (Solid, Gas):	No data available
Upper/Lower Flammability or Explosive Limits:	Not expected to create to create explosive atmospheres
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	0.6 – 0.9 (See Technical Bulletin or Product Specifications for a more precise value, if available)
Solubility(ies):	Soluble in water
Partition Coefficient n-octanol/water (log value):	-2
Autoignition Temperature:	Does not self-ignite (based on the chemical structure)
Decomposition Temperature:	> 150°C
Viscosity:	See Technical Bulletin

SAFETY DATA SHEET

Explosive Properties:	KSt = 0 (Not explosible according to ASTM E1226-19 and EN 14034).
Oxidizing Properties:	Not expected to be oxidizing based on the chemical structure.
Other Information:	None

Section 10: STABILITY AND REACTIVITY

Reactivity:	None known
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Oxidizing agents may cause exothermic reactions. Contact with strong bases liberates ammonia.
Conditions to Avoid:	None known
Incompatible Materials:	Incompatible with strong bases and oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition may produce nitrogen oxides (NO _x), carbon oxides (CO _x), ammonia (NH ₃), hydrogen cyanide (hydrocyanic acid) may be products in the event of combustion in an oxygen deficient atmosphere.

Section 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Information on the Product Supplied

Acute Oral Toxicity:	LD 50/oral/rat > 5000 mg/kg
Acute Dermal Toxicity:	LD 50/dermal/rat > 5000 mg/kg
Acute Inhalation Toxicity:	The product is not expected to be toxic by inhalation.
Skin Corrosion/Irritation:	Not irritating
Serious Eye Damage/ Eye Irritation:	Not irritating
Respiratory/Skin Sensitization:	Not sensitizing
Mutagenicity:	Not mutagenic
Carcinogenicity:	Not carcinogenic
Reproductive Toxicity:	Not toxic for reproduction
STOT – Single Exposure:	No known effects
STOT – Repeated Exposure:	No known effect
Aspiration Hazard:	No hazards resulting from the material as supplied.

SAFETY DATA SHEET

Section 12: ECOLOGICAL INFORMATION

Toxicity

Information on The Product as Supplied

Acute Toxicity to Fish:	LC50/Danio Rerio/96 hours > 100 mg/L (OECD 203) LC50/Fathead Minnow/96 hours > 100 mg/L (OECD 203)
Acute Toxicity to Invertebrates:	EC50/Daphnia Magna/48 hours > 100 mg/L (OECD 202)
Acute Toxicity to Algae:	IC50/Scenedesmus Subspicatus/72 hours > 100 mg/L (OECD 201)
Chronic Toxicity to Fish:	No data available
Chronic Toxicity to Invertebrates:	No data available
Toxicity to Microorganisms:	No data available
Effects on Terrestrial Organisms:	No known effects
Sediment Toxicity:	No data available

Persistence and Degradability

Information on The Product as Supplied

Degradation:	Not readily biodegradable
Hydrolysis:	Does not hydrolyse
Photolysis:	No data available

Bioaccumulative Potential

Information on The Product as Supplied

Not Bioaccumulating

Partition Co-efficient (Log Pow):	-2
Bioconcentration Factor (BCF):	~0

Mobility in Soil

Information on The Product as Supplied

None

Other Adverse Effects:	None known
-------------------------------	------------

SAFETY DATA SHEET

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from Residues/Unused Products: Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated Packaging: Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Recycling: In accordance with local and national regulations.

Section 14: TRANSPORT INFORMATION

Land Transport (TDG): Not classified

Sea Transport (IMDG): Not classified

Air Transport (IATA): Not classified

Section 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture Information on The Product as Supplied

DSL / NDSL Chemical Substances Inventory

Canada (DSL): All components of this product are either listed on the inventory or are exempt from listing.

Section 16: OTHER INFORMATION

This Data Sheet Contains Changes from The Previous Version in Section(s): Section 8 – Exposure Controls/Personal Protection
Section 16 – Other Information

Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet: STOT = Specific Target Organ Toxicity

Training Advice: Do not handle until all safety precautions have been read and understood.

SAFETY DATA SHEET

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.

Revision Date: June 27, 2024