

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	HYPERDRILL® AF204RD
Product Identifier	Anionic water-soluble polymer
Product Family	Flocculation agent
Supplier	Prairie Mud Service 738 6th Street, Estevan, SK. S4A 1A4 306-634-3411
Emergency Contact Information	CANUTEC, (613) 996-6666, 24/7
Use	Drilling Fluid Additive

2. HAZARDS IDENTIFICATION

Emergency Overview White powder. Odourless. Product is EXTREMELY slippery when wet!

Potential Health Effects

Inhalation	Can irritate the nose and throat.
Skin Contact	Repeated or prolonged exposure can irritate the skin.
Eye Contact	Symptoms include sore, red eyes, and tearing.
Ingestion	Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %	Other Identifiers
Anionic water-soluble polymer			

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration (AR).
Skin Contact	Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. If adverse symptoms develop, seek medical attention.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If irritation or pain persists, see a doctor.
Ingestion	The product is not considered toxic based on studies on laboratory animals.
First Aid Comments	If exposed or concerned, see a doctor for medical advice.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Specific Hazards Arising from the Chemical Spills produce EXTREMELY slippery surfaces.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	No special precautions are necessary.
Environmental Precautions	Avoid contaminating water.
Methods for Containment and Clean-up	Do not flush with water. Clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.
Storage	Keep in a dry, cool place (0 - 35°C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.
Personal Protective Equipment (PPE)	
Eye/Face Protection	Safety glasses with side shields. Do not wear contact lenses.
Skin Protection	Use rubber gloves. No other special protective equipment required.
Respiratory Protection	Dust safety masks are recommended where concentration of total dust is more than 10 mg/m ³ .
General Hygiene Considerations	Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	White powder.
Odour	Odourless
Odour Threshold	Not applicable
Melting Point	Not applicable
Relative Density (water = 1)	Not available
Bulk Density	700 kg/m ³ (44 lb/ft ³)
Solubility in Water	Soluble
pH	6 - 8 (0.5% solution)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not available
Evaporation Rate	Not applicable
Flash Point	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Incompatible Materials	Strong oxidants may cause exothermic reactions.
Hazardous Decomposition Products	Thermal decomposition may produce CO and NO.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Oral: LD50 > 5,000 mg/kg (rat)

Dermal: The results of testing on rabbits showed this material to be non-toxic even at high dose levels.

Eye Irritation/Corrosion

Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.

Effects of Long-Term (Chronic) Exposure

A two-year feeding study on rats did not reveal adverse health effects.

A one-year feeding study on dogs did not reveal adverse health effects.

Respiratory and/or Skin Sensitization

The results of testing on guinea pigs showed this material to be non-sensitizing.

12. ECOLOGICAL INFORMATION

Ecotoxicity The product is rapidly eliminated from the aquatic medium through reversible adsorption onto suspended matter and dissolved organics.

Fish: LC50/Danio rerio/96 hr > 100 mg/L (OECD 203)

(based on the toxicity of the components using the conventional method)

Algae: IC50/Scenedesmus subspicatus/72 hr >100 mg/L (OECD 201)

(based on the toxicity of the components using the conventional method)

Daphnia: EC50/Daphnia magna/48 hr > 100 mg/L (OECD 202)

(based on the toxicity of the components using the conventional method)

Persistence and Degradability Does not biodegrade readily.

Bioaccumulation / Accumulation This product and its byproducts are not known to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Rinse empty containers with water and use rinse water to prepare the working solution. Can be landfilled or incinerated when in compliance with local regulations. Dispose of in accordance with federal, provincial/state and local regulations.

14. TRANSPORT INFORMATION

Shipping Information

Not regulated under Canadian TDG Regulations.

Other Transport Information

Special Shipping Information Not applicable

15. REGULATORY INFORMATION

Canada

WHMIS Classification

Not a WHMIS controlled product.

16. OTHER INFORMATION

NFPA Rating Health - 1 Flammability - 1 Instability - 0

MSDS Prepared By Bri-Chem Supply Ltd

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Disclaimer

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