

# Safety Data Sheet

Ultrabind 1/2/3/4



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## 1. Identification of the Product and the Company

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**Product Name:** Ultrabind 1/2/3/4    **Product Type:** Granular Solid    **Chemical Family:** Anionic Polymer

**Material Uses:** Ultrabind is used to help solidify and dewater slurries.

**Supplier:** Clearflow Group Inc.    #140, 134 Pembina Rd.    Sherwood Park, AB T8H 0M2  
Ph. 780-410-1403    Fax. 780-410-1406    [www.clearflowgroup.com](http://www.clearflowgroup.com)

**In Case of Emergency:**    780-410-1403

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## 2. Composition / Information on Ingredients

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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## 3. Hazard Identification

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### Potential Acute Health Effects

**Inhalation:** Inhalation of vapours, mists or dusts of the product may be irritating to the respiratory system. May irritate mouth, nose, and throat.

**Ingestion:** May cause irritation of the lining of the stomach.

**Skin:** Mild to Moderate irritation can occur. Prolonged or repeated contact may cause defatting and drying of the skin. Prolonged or repeated contact may cause discomfort and local redness.

**Eyes:** May cause eye irritation. May result in mild to moderate irritation to eyes.

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## 4. First Aid Measures

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**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**Skin contact:** In case of contact, rinse with soap and water. Remove contaminated clothing and launder before reuse.

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to Physician:** Treatment based on sound judgement of physician and individual reactions of patient.

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## 5. Fire-Fighting Measures

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**Flash Point:** None.

**Flash Point Method:** Not applicable.

**Autoignition Temperature:** Not available.

**Flammable Limits in Air (%):** Not available.

### Extinguishing Media

**Suitable:** Use an extinguishing media suitable for the surrounding fire.

**Not Suitable:** None known.

### **Hazardous Thermal**

**Decomposition Products:** Carbon and Nitrogen Oxides.

### **Special Protective**

**Equipment for Fire-Fighters:** Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**NFPA Ratings for this product are:**    HEALTH 1    FLAMMABILITY 0    INSTABILITY 1

**HMIS Ratings for this product are:**    HEALTH 1    FLAMMABILITY 0    REACTIVITY 1

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## 6. Accidental Release Measures

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- Personal precautions:** Wear appropriate protective equipment. Wet product and aqueous solutions of product are very slippery. Trace amounts of product on smooth surfaces can become extremely slippery when wet.
- Environmental Precautions:** Prevent entry of concentrated solutions into sewers or streams, dike if needed.
- Procedure for Clean-up:** Sweep or scoop dry material and place in appropriate container. Absorb aqueous solutions with a dry inert material, such as clay, and place in an appropriate waste disposal container. After most of the material has been remediated clean the area with warm, soapy water.
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## 7. Handling and Storage

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- Handling:** For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.
- Storage:** Store in a cool, dry area. Store in accordance with good industrial practices. Keep away from direct sunlight. Protect against physical damage.
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## 8. Exposure Controls / Personal Protection

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### Personal Protection

- Respiratory:** A respirator should not be required when working with Ultrabind.
- Hands:** Use gloves appropriate for work or task being performed. Recommended: PVC, vinyl, or rubber.
- Eyes:** Safety eyewear should be used when there is a likelihood of exposure. Recommended: Chemical goggles; also wear a face shield if splashing hazard exists.
- Skin** Skin Contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.
- Other Personal Protection Data:** Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Engineering Controls:** Local exhaust ventilation as necessary to maintain exposure to within applicable limits.
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## 9. Physical and Chemical Properties

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- Physical State:** Solid
- Color:** White or off-white
- Odor:** Odorless
- pH:** ~7
- Specific Gravity:** ~1.1
- Boiling/Condensing Point:** Not available.
- Melting/Freezing Point:** Not available.
- Vapour Pressure:** Not available.
- Vapour Density:** Not available.
- % Volatile by Volume:** Not available.
- Evaporation Rate:** Not available.
- Solubility:** Completely soluble but dissolves very slowly.
- VOCs:** Not available.
- Viscosity:** Concentration dependant.
- Molecular Weight:** Not available.
- Other:** None

## 10. Stability and Reactivity

<b>Chemical Stability:</b>	The product is stable.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	High temperatures.
<b>Materials to Avoid:</b>	Strong bases such as sodium hydroxide may cause the release of ammonia.
<b>Hazardous Decomposition Products:</b>	At high temperatures carbon oxides and nitrogen oxides may be released upon decomposition.
<b>Additional Information:</b>	No additional information.

## 11. Toxicological Information

### Principle Routes of Exposure

<b>Ingestion:</b>	May cause irritation of the lining of the stomach.
<b>Skin contact:</b>	Mild to moderate irritation can occur. Prolonged or repeated contact may cause defatting and drying of the skin. Prolonged or repeated contact may cause discomfort and local redness.
<b>Inhalation:</b>	Inhalation of vapours, mists or dusts of the product may be irritating to the respiratory system. May irritate mouth, nose, and throat.
<b>Eye Contact:</b>	May cause eye irritation. May result in mild to moderate irritation to eyes.
<b>Additional Information:</b>	Prolonged and repeated contact with the skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.

### Acute Toxicity

<b>Acute Oral LD50:</b>	Oral LD50 (Rat) > 5000 mg/kg
<b>Acute Dermal LD50:</b>	Not available.
<b>Acute Inhalation LC50:</b>	Not available.

### Carcinogenicity

2-Propenamide is a suspected human carcinogen but is present at <0.05% (drinking water additive standard).

**Carcinogenicity Comment:** No additional information available.

**Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity:** Not available.

## 12. Ecological Information

### Aquatic Ecotoxicity

Ingredient	Species	Test	Result
Whole Product - Ultrabind 1	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50 96 hr	>1000 mg/L
	<i>Oncorhynchus mykiss</i>	EC50 96 hr	>1000 mg/L
	<i>Daphnia magna</i>	LC50 48 hr	>1000 mg/L
	<i>Daphnia magna</i>	EC50 48 hr	>1000 mg/L

Ingredient	Species	Test	Result
Whole Product Ultrabind 2	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50 96 hr	155 mg/L
	<i>Daphnia magna</i>	LC50 48 hr	>2000 mg/L

Ingredient	Species	Test	Result
Whole Product Ultrabind 3	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50 96 hr	>100 mg/L
	<i>Daphnia magna</i>	LC50 48 hr	>100 mg/L

Ingredient	Species	Test	Result
Whole Product Ultrabind 4	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50 96 hr (survival)	96.3 mg/L
	<i>Daphnia magna</i>	EC50 48 hr (immobilization)	341.3 mg/L

### Other Information:

<b>Bioaccumulation:</b>	The product is not expected to bioaccumulate.
<b>Persistence / Degradability:</b>	Full degradation through environmental exposure is expected. Degradation initiation and rate is dependent on UV exposure.

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### 13. Disposal Considerations

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**Disposal of Waste Method:** Disposal of all wastes must be done in accordance with local, state, and federal regulations.

**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

### 14. Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Hazard Class	PG*	Label	Additional Information
DOT (U.S.)	-	-	-	-	-	not a regulated product
TDG (Canada)	-	-	-	-	-	not a regulated product

PG\*: Packaging Group

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### 15. Regulatory Information

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**U.S. TSCA Inventory Status:** All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

**Canadian DSL Inventory Status:** All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

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### 16. Other Information

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**Prepared By:** Clearflow Group US Inc.

**Date of Issue:** 06/23/2023

**Change List:** Company name, minor formatting, review of data – 3/13/2019  
Formatting, data review, contact info update – 09/25/2020  
Formatting, and contact info update – 05/10/2023  
Formatting, logo change, condensed version created – 6/23/2023

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\*\*\*END OF SDS\*\*\*