

Safety Data Sheet



Clearflow Gel Block Flocculant 665

1. Identification of the Product and the Company

Product Name: Clearflow Gel Block Flocculant 665 **Product Type:** Gel Block **Chemical Family:** Cationic polymer

Material Uses: Clearflow Gel Block Flocculant 665 is used as a flocculating agent in municipal and industrial water and wastewater treatment.

Supplier: Clearflow Group Inc. #140, 134 Pembina Road Sherwood Park, AB T8A 0M2
Ph. 780-410-1403 Fx. 780-410-1406 www.clearflowgroup.com

In Case of Emergency: 780-410-1403

2. Composition / Information on Ingredients

Identification: Cationic water-soluble polymer.

Regulated Components:

Substance Name:	CAS Number	Weight %	Ingredient Disclosure List
Adipic Acid	124-04-9	<= 5	yes
Sulfamic Acid	5329-14-6	<= 2.5	yes

3. Hazard Identification

Spills produce extremely slippery surfaces.

Canada Hazard Identification

Canadian WHMIS Class: Not controlled.

4. First Aid Measures

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. In case of persistent skin irritation, consult a physician.

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: Rinse with water. Do NOT induce vomiting. Give medical attention if symptoms occur.

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

5. Fire-Fighting Measures

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.

Suitable Extinguishing Media: Water, water spray, foam, dry powder, carbon dioxide (CO₂).

Precautions: Spills that become wet produce extremely slippery surfaces.

Special Protective Equipment: No special protective equipment is required for firefighters.

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

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

6. Accidental Release Measures

- 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 cleaned-up clean the area with warm, soapy water.
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7. Handling and Storage

- 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

Personal Protection

- Respiratory:** A respirator is not required when working with Clearflow Gel Block Flocculant 665.
- 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.
- Hygiene Measures:** Wash hands before breaks and at the end of the work day. When using: do not eat, drink, or smoke. Handle in accordance with good industrial hygiene and safety practice
- Engineering Controls:** Local exhaust ventilation as necessary, natural ventilation is adequate.
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9. Physical and Chemical Properties

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|--------------------------------|----------------|----------------------------------|---|
| Physical State: | Solid | Color: | Purple |
| Odor: | Slightly Fishy | 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 |
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10. Stability and Reactivity

Chemical Stability:	The product is stable.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	High temperatures.
Materials to Avoid:	Strong bases such as sodium hydroxide may cause the release of ammonia.
Hazardous Decomposition Products:	At high temperatures thermal decomposition may produce Hydrogen Chloride gas, carbon oxides (COx) and nitrogen oxides (NOx).

11. Toxicological Information

Acute Toxicity

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

Carcinogenicity

Acrylamide is a suspected human carcinogen.

Carcinogenicity Comment: No additional information available.

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

Component Information

Adipic Acid:	eye irritant
Sulfamic Acid:	skin irritant, severe eye irritant

12. Ecological Information

Aquatic Ecotoxicity

Ingredient	Species	Test	Result
Whole Product	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50 96 hr	no information
	<i>Daphnia magna</i>	LC50 48 hr	no information

Other Information:

Bioaccumulation:	The product is not expected to bioaccumulate.
Persistence / Degradability:	Full degradation through environmental exposure is expected. Degradation initiation and rate is dependent on UV exposure.
Hydrolysis:	At normal pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.
LogPow:	0

13. Disposal Considerations

Disposal of Waste Method:	Disposal of all wastes must be done in accordance with municipal, provincial 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

15. Regulatory Information

Canadian WHMIS Class:

Not controlled.

Canadian Ingredients Disclosure List (IDL):

Adipic acid, Sulfamic Acid.

Domestic Substances List (DSL):

All components of this product are either listed on the inventory or are exempt from listing.

16. Other Information

Additional Information: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Prepared By: Clearflow Group, Inc.

Date of Issue: 1/05/2021

Change List: New Product – 4/24/2018
Data Review, SDS conversion, address update – 4/05/2019
Logo update, data review, product name update – 1/05/2021

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END OF SDS