



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name : Clarifloc C-379 Polymer

Company: Polydyne Inc.
PO Box 279
Riceboro, GA 31323
United States

Telephone: 800-848-7659
Telefax: 912-884-8770
E-mail: info@snfhc.com

Emergency telephone number : 800-424-9300 CHEMTREC (CCN 20412), Outside U.S. 703-527-3887

Product Use : Processing aid for industrial applications

2. HAZARDS IDENTIFICATION

Spills produce extremely slippery surfaces. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification: Cationic polymer in solution.

Chemical name	CAS No.	EU Classification	Weight %
Copolymer of Epichlorohydrin and Dimethylamine	25988-97-0	R52/53	49

The wording of the hazard symbols and Risk phrases is specified in section 16 if dangerous ingredients are mentioned.

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin contact: Wash with water and soap as a precaution. In case of persistent skin irritation, consult a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

Ingestion: The product is not considered toxic based on studies on laboratory animals.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water. Water spray. Foam. Carbon dioxide (CO2). Dry powder.

Precautions: Spills produce extremely slippery surfaces.

Special protective equipment for firefighters: No special protective equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No special precautions required.

Environmental precautions: Do not contaminate water.

Methods for cleaning up: Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilled in large quantities 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. When preparing the working solution ensure there is adequate ventilation. When using do not smoke.

Storage: Keep in a dry cool place (0 - 30 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection: PVC or other plastic material gloves.

Eye protection: Safety glasses with side-shields. Do not wear contact lenses where this product is used.

Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hygiene measures: Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Clear Amber

pH: 5.5 ± 1.5

Specific Gravity: 1.14 ± 0.02

Flash point (°C): >100

Freezing point (°C): -3

Autoignition temperature (°C): >200

Water solubility: Completely miscible

Viscosity (mPa.s): 100 - 6000

LogPow: 0

10. STABILITY AND REACTIVITY

Stability: Stable. Hazardous polymerisation does not occur.

Materials to avoid: Oxidizing agents may cause exothermic reactions.

Hazardous decomposition products: No decomposition if stored and applied as directed. Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxides (NO_x), carbon oxides (CO_x).

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD50/oral/rat > 2000 mg/kg. (estimated).

Skin: LD50/dermal/rat > 2000 mg/kg. (estimated).

Inhalation: The product is not expected to be toxic by inhalation.

Irritation:

Skin: Testing conducted on rabbits according to the Draize technique showed the material to be only slightly irritating to the skin.

Eyes: Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight conjunctival effects.

Sensitization: Not sensitizing.

Chronic toxicity: NOEL/oral/rat/90 days = 2000 mg/kg/day.

Other information Not mutagenic in Ames Test. Not mutagenic in micronucleus test on mice.

12. ECOLOGICAL INFORMATION

Aquatic toxicity:

Toxicity to fish: LD50/Danio rerio (Zebra fish/Fat head minnow)/96 hours > 10 mg/L (OECD 203).

Toxicity to daphnia: EC50/Daphnia magna (Water flea)/48 hours > 10 mg/L (OECD 202).

Toxicity to algae: Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test

Environmental fate:

Persistence and degradability: Not readily biodegradable.

Hydrolysis: Does not hydrolyse.

Bioaccumulation: Does not bioaccumulate.

LogPow: 0

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Other ecological information: The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: In accordance with local, state and federal regulations.

Contaminated packaging: Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

14. TRANSPORT INFORMATION

U.S. DOT/ADR/RID: Not classified as dangerous in the meaning of DOT/ADR/RID regulations.

IMDG/IMO: Not classified as dangerous in the meaning of IMO/IMDG regulations.

ICAO/IATA: Not classified as dangerous in the meaning of ICAO/IATA regulations.

15. REGULATORY INFORMATION

Classification and Labelling: The product is classified and labelled in accordance with EC directives or respective national laws.

International Inventories:

Risk-phrase(s):

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety-phrase(s):

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

European Union (REACH): All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration. U.S. TSCA: Complies with EPA TSCA regulations.

16. OTHER INFORMATION

Further Information

Text of R phrases mentioned in Section 3:

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This MSDS was prepared in accordance with the following:

Regulation (EC) N° 1907/2006

Regulation (EC) N° 1272/2008

Directive 67/548/EEC

Directive 1999/45/EC

as amended.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Product Name: Clarifloc C-379 Polymer(Cationic Polyamine Coagulant Polymer)

Company Name: Polydyne INC.

Product Composition		
Material	CAS RN	Weight %
1. Methanamine, N-methyl-, polymer with (chloromethyl)oxirane CAS No. 25988-97-0		49
2. Water	7732-18-5	51
3. Epichlorohydrin (as residual)	106-89-8	< 0.002