

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name : **CLARIFLOC C-339 POLYMER**

Company : SNF Inc.
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Riceboro, GA 31323
United States

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Product Use : Processing aid for industrial applications.

2. HAZARDS IDENTIFICATION

Hazard 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	EC-No. :	CAS-No. :	Classification :	Weight %
Copolymer of Epichlorohydrin and Dimethylamine	Polymer	25988-97-0	R52/53	25-75

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

Unsuitable extinguishing media : None.

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 spilt 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

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

No exposure limits noted for ingredient(s)

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 : Rubber 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 : 4.0-6.0

Specific Gravity : 1.12-1.16

Flash point : >100

Freezing point (°C) : -3

Autoignition temperature (°C) : >200

Water solubility : Completely miscible

Viscosity (mPa.s) : 100-6000

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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral : LD50/oral/rat > 5000 mg/kg. (estimated).

Skin : LD50/dermal/rat > 5000 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 : LC50/96 hours > 10 mg/l (OECD 203)

Toxicity to daphnia : EC(I)50/Daphnia m./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.

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

ADR/RID

Not classified as dangerous in the meaning of ADR/RID regulations.

IMDG/IMO

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

ICAO/IATA

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

15. REGULATORY INFORMATION

Classification and Labelling

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

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.

International Inventories

European Union (EINECS/ELINCS) :

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

Australia (AICS) : All components listed on inventory.

Canada (DSL) : All components are listed on inventory.

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

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

Korea (ECL) : All components listed on inventory.

Philippines (PICCS) : All components listed on inventory.

USA (TSCA): All components are listed on inventory.

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.

Contact person: Product Information & Regulatory Affairs (+33-477.36.87.20).

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