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MATERIAL SAFETY DATA SHEET

PAGE:	1 of 5
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1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

FLOQUAT FL H820L

Supplier :

SNF INC

PO Box 250

Riceboro, Georgia 31323

Tel : 912-884-3366 Fax : 912-884-5031

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation :

Cationic polymer in solution

Chemical Name	CAS-No	Weight %
Polydiallyldimethylammonium chloride (Polydadmac)	26062-79-3	20-50

3. HAZARDS IDENTIFICATION

Spills produce extremely slippery surfaces.

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

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

Special fire-fighting precautions : Spills produce extremely slippery surfaces.

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, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breathe vapours or spray mist. When using do not smoke.
- Storage :** Keep in a dry, cool place (0 - 35°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 controls :** Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
- Personal protection 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.
 - **Skin protection :** Chemical resistant apron or protective suit if splashing or 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 :** amber
- Odor :** slight
- pH :** 4 - 8 „for product series. See Technical Bulletin for specific value.,,
- Melting point (°C) :** Not applicable.
- Flash point (°C) :** >100°C

Autoignition temperature (°C) : >200°C

Bulk density : See Technical Bulletin

Water solubility : Completely miscible.

Viscosity (mPa s) : See Technical Bulletin

10. STABILITY AND REACTIVITY

Stability : Product is stable, No hazardous polymerization will occur.
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 > 2000 mg/kg
- **Dermal :** This product has been tested for cutaneous irritation on New Zealand White male rabbits according to OECD guideline 404. No effects (erythema or edema) were observed after 24 hours. This product is not irritating to skin.
- **Inhalation :** The product is not expected to be toxic by inhalation.

Irritation

- **Skin :** May cause skin irritation with susceptible persons
- **Eyes :** Testing conducted on rabbits showed minor transient irritation which cleared within days.

Sensitization : The product is not expected to be sensitizing.

Chronic toxicity : NOEL / Oral / rat / 90-day = 5000 mg/kg
Two-year feeding studies on rats and dogs did not reveal any adverse health effects.

Other information : Not mutagenic in AMES Test.
Not mutagenic in micronucleus test on mice.
Not teratogenic, NOEL = 175 mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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

- **Fish** LC50/Danio rerio/96 hr > 10 mg/L (OECD 203)
- **Algae :** Algal inhibition tests are not appropriate. The flocculating characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
- **Daphnia :** EC50/Daphnia magna/48 hr > 10 mg/L (OECD 202)
- Bioaccumulation :** Does not bioaccumulate.
- Persistence / degradability :** Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Not regulated by DOT.

15. REGULATORY INFORMATION

All components of this product are on the TSCA and DSL inventories.

- RCRA status :** Not a hazardous waste.
- Hazardous waste number :** Not applicable
- Reportable quantity (40 CFR 302) :** Not applicable
- Threshold planning quantity (40 CFR 355)** Not applicable

FLOQUAT FL H820L

PAGE:	5 of 5
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California Proposition 65 information : Not applicable

HMIS & NFPA Ratings	HMIS	NFPA
Health :	1	1
Flammability :	0	0
Reactivity :	0	0
Personal Protection/Special :	B	

16. OTHER INFORMATION

Person to contact : Regulatory Affairs Manager

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.