



Material Safety Data Sheet

OSHA / ANSI Z400.1-2004 Compliant

MSDS date: 02-Feb-2006

NFPA Rating: Health: 1 Flammability: 1 Instability: 0
HMIS Rating: Health: 1 Flammability: 1 Physical Hazard: 0 Personal Protection: B

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MAGNAFLOC LT22S
Product Number: 8357920
Chemical Family: Copolymer of a quaternary acrylate salt and acrylamide.
Intended Use: Flocculant
Manufacturer/Supplier: Ciba Specialty Chemicals Corporation
2301 Wilroy Road
Suffolk, VA 23434
8:30am - 5pm Phone Number: 1-757-538-3700
MSDS Request Line (voicemail): 1-800-431-2360
Customer Service/Product Information 1-800-322-3885
Emergency 24-Hour Health/Environmental Phone: 1-800-873-1138

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Signal Word: CAUTION!
Physical Form: Granular Powder
Color: White
Odor: None
Health: Contact causes eye irritation.
Physical Hazards: Slip hazard when wet, Refer to MSDS Section 7 for Dust Explosion information. .

OSHA Hazardous Substance: This material is classified as hazardous under OSHA regulations.
Primary Route(s) of Entry: Eyes, Inhalation, Ingestion, Skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Components	CAS Number	Weight %
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4	85-90
Hexanedioic acid	124-04-9	3-6

4. FIRST AID MEASURES

- Eyes:** Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed. Get immediate medical attention if irritation persists.
- Skin:** Wash off immediately with soap and plenty of water. Get medical attention if irritation occurs. If clothing is contaminated, remove and launder before reuse.
- Inhalation:** Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.
- Ingestion:** Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

- Fire Fighting Measures:** The product becomes slippery when wet. Restrict pedestrian and vehicular traffic in areas where slip hazard may exist.
- Suitable Extinguishing Media:** Carbon dioxide, dry chemical or foam.
- Unsuitable Extinguishing Media:** The product becomes slippery when wet.
- Fire Fighting Equipment:** Wear self-contained breathing apparatus and protective suit.
- Unusual hazards:** Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.
- Hazardous Combustion Products:** Burning may produce oxides of carbon or nitrogen.

6. ACCIDENTAL RELEASE MEASURES

- Cleanup Instructions:** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Wear suitable protective equipment. Should not be released into the environment.

7. HANDLING AND STORAGE

- Handling:** As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation.
- Storage:** Keep containers tightly closed in a cool, well-ventilated place.
- Explosion Hazards:** Avoid creating dusty conditions. Risk of explosion if an air-dust mixture forms.

For Industrial Use Only

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Components	OSHA PEL	OSHA STEL	ACGIH TWA	ACGIH STEL	Ciba/ Manufacturer IEL:
Hexanedioic acid 124-04-9			5 mg/m ³		

Table Footnote: Blank cells in above table indicate no data available.

Personal Protective Equipment

- Eye/Face Protection:** Wear safety glasses or goggles to protect against dust particles.
- Skin Protection:** Wear chemical resistant gloves and protective clothing.
- Respiratory Protection:** Use NIOSH approved respirator as needed to mitigate exposure.
- Engineering Controls:** Work in well ventilated areas. Do not breathe dust. Local exhaust/ventilation recommended.
- Other Protective Equipment:** Eye wash station and safety shower should be available in immediate work area. Select additional protective equipment based upon potential for exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Granular Powder
Color:	White
Odor:	None.
Freezing/Melting Point:	Not determined
Solubility in water:	Soluble, solubility limited by viscosity
Vapor Density:	Not applicable
Vapor Pressure:	Not applicable
Density:	Not determined
Specific Gravity:	0.8 - 1
pH:	~ 3.3 (1 % solution)
Percent Volatile:	None expected above trace levels.
VOC:	Not applicable
Partition Coefficient (Octanol/Water):	Not determined
Decomposition Temperature:	Not determined
Flammability Limits in Air:	
Flash point:	Not applicable
Test Method (for Flash Point):	Not applicable

10. STABILITY AND REACTIVITY

- Stability:** Stable.
- Conditions to Avoid:** Avoid static discharges and sources of ignition. Avoid high temperatures. Avoid wet and humid conditions.
- Incompatibility:** Strong oxidizing agents. (may degrade polymer)

Hazardous Decomposition Products:

No decomposition expected under normal storage conditions.

Possibility of Hazardous Reactions:

Product has a high minimum ignition energy; however, dust may be ignited under some conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:

Not determined.

Acute Dermal Toxicity:

Not determined

Acute Inhalation Toxicity:

Not determined.

Eye Irritation:

Not determined.

Skin Irritation:

Not determined.

Skin Sensitization:

Not determined

Carcinogenicity (IARC; NTP; OSHA; ACGIH):

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Carcinogenicity Studies:

Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Mutagenicity:

No data for product. No effects anticipated.

Reproductive Toxicity:

No data for product. No effects anticipated.

Teratogenicity:

Not determined. No effects anticipated.

Neurotoxicity:

Not determined

Subacute Toxicity:

Not determined

Subchronic Toxicity:

Not determined

Chronic toxicity:

Not determined

Absorption / Distribution / Excretion / Metabolism:

Not determined

Additional Information:

Not determined

12. ECOLOGICAL INFORMATION

Toxicity to Fish:LC50 18 mg/l 96 hour (Rainbow trout) (under static conditions in the presence of humic acid)
LC50: 3000 mg/L 96-hour, (Menidia beryllina)**Toxicity to Invertebrates:**LC50 2800 mg/L 48 hour (Daphnia magna) (under static conditions in the presence of humic acid)
LC50 200 mg/L 96 hour (Mysid shrimp)

Toxicity to Algae:	Not determined
Toxicity to Sewage Bacteria:	Not determined
Activated Sludge Respiration Inhibition Test:	Not determined
Biochemical Oxygen Demand (BOD):	Not determined
Chemical Oxygen Demand (COD):	Not determined
Total Oxygen Demand (TOD):	Not determined
Biodegradability:	Based on the results of 28-Day Biodegradability assay, this product is not readily biodegradable (< 20% after 28 days).
Bioaccumulation:	Not determined
Additional Environmental Data:	This product contains cationic polymer(s) that may be toxic to aquatic organisms when tested in pure (distilled) water. Toxicity is greatly reduced by particles in natural water.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with local, state, provincial and federal regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT):

Not regulated for this mode of transport.

International Maritime Dangerous Goods (IMDG):

Not regulated for this mode of transport.

International Air Transportation Authority (IATA):

Not regulated for this mode of transport.

15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazardous Substance: This material is classified as hazardous under OSHA regulations

Clean Air Act - Hazardous Air Pollutants (HAP): This product contains the following Hazardous Air Pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Components	CAA Section 112 Statutory Hazardous Air Pollutants
2-propenamide 79-06-1 (0-0.05 %)	Listed.

Clean Air Act - Volatile Organic Compounds (VOC): This product contains the following SOCM Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40 CFR 60.489).

Components	CAA Section 111 Volatile Organic Compounds
Hexanedioic acid 124-04-9	Listed.
2-propenamide 79-06-1	Listed.

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261.21).

SARA Section 302 Extremely Hazardous Substances (EHS): This product contains the following component(s) regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

Components	Section 302 Extremely Hazardous Substances (EHS)
2-propenamide 79-06-1 (0-0.05 %)	Listed.

SARA Section 304 CERCLA Hazardous Substances: This product contains the following component(s) regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

Components	Section 304 CERCLA Hazardous Substances	CERCLA Reportable Quantity
Hexanedioic acid 124-04-9 (3-6 %)	Listed.	5000 LBS
2-propenamide 79-06-1 (0-0.05 %)	Listed.	5000 LBS

SARA Section 311/312 Hazard Communication Standard (HCS): This product is regulated under Section 311/312 HCS (40 CFR 370). Its hazard(s): Acute (immediate) health hazard.

SARA Section 313 Toxic Chemical List (TCL): This product does not contain any components reportable under Sec 313 (40 CFR 372).

TSCA Section 8(b) Inventory Status: All component(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 5(e) Consent Orders: This product is not subject to a Section 5(e) Consent Order.

TSCA Significant New Use Rule (SNUR): This product is not subject to a Significant New Use Rule (SNUR).

TSCA Section 5(f): This product is not subject to a Section 5(f)/6(a) rule.

TSCA Section 12(b) Export Notification: This product does not contain any component(s) that are subject to a Section 12(b) Export Notification

State Regulations

California Proposition 65: This product contains the following component(s) currently on the California list of Known Carcinogens and Reproductive Toxins.

Components	California Proposition 65
2-propenamide 79-06-1	Carcinogenic.

Pennsylvania Right-To-Know: This product contains the following component(s) which are subject to Pennsylvania Right-to-Know disclosure requirement.

Components	CAS Number	Pennsylvania Right-to-Know
Hexanedioic acid	124-04-9	Listed. Environmental hazard.
2-propenamide	79-06-1	Listed. Environmental hazard.
Water	7732-18-5	Not Listed.
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4	Not Listed.

International Regulations

Chemical Weapons Convention (CWC): This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

Domestic Substance List (DSL) Status: All components either exempt or listed on the DSL.

16. OTHER INFORMATION

Reason for revision: Section(s) revised: 3,8

Disclaimer: The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.