

SAFETY DATA SHEET (GHS Format)

Also available for download at: http://www.WalterLouis.com/MSDS/

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Identifiers

Product name: #4015 Flocculant

Product Number: 4015

Product Application: Cationic Polyamide for water clarification

Emergency telephone number: CHEMTREC (800) 424-9300 Poison Control: 1-800-222-1222

SECTION 2 – HAZARD IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Signal Word: NONE Pictograms: NONE

Physical Hazards: Not Classified

Health Hazards: Skin Irritation/Corrosion (Category 1) Causes mild skin irritation.

Eye Damage/Irritation NONE

Environmental Hazards: Acute aquatic toxicity (Category 3) Harmful to aquatic life. May cause long term adverse

effects in the aquatic environment.

Precautionary Statements

Prevention: P260 Do not breathe mist, vapors, or spray

P264 Wash hands thoroughly after handling

P270 Do not eat or drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves and eye protection/face protection.

Response: P303/P361/P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

P337/P313 If eye irritation persists: get medical advice/attention.

P391 Collect spillage.

Storage: P233/235 Keep container tightly closed. Keep cool.

P402/403 Store in a dry, well-ventilated place

Disposal: P501 Dispose of contents / container in accordance with local / state / federal regulations **HNOC:** HMIS Rating: Health hazard: 1 Chronic Health Hazard: 0 Flammability: 0 Physical Hazard 0

NFPA Rating: Health hazard: 1 Fire Hazard: 0 Reactivity Hazard: 0 * Hazards not otherwise classified (HNOC) or not covered by GHS.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

(Non) Hazardous Ingredient CAS Wt% 1,2-Ethanediamine, polymer with (chloromethyl) oxirane and N-methylmethanamine 42751-79-1 49-51

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SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician if exposed and concerned. Show this safety data sheet to the doctor in attendance. Move out of exposure area.

If inhaled: If difficulty breathing occurs after vapor/aerosol has been inhaled, remove to fresh air and get medical attention immediately.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician if irritation persists. Launder contaminated clothing before reuse.

In case of eye contact: Immediately flush eyes with large amounts of running water for at least 15 minutes, lifting the upper and lower lids. Remove contact lenses if able. Consult an ophthalmologist if irritation persists.

If swallowed: Immediately rinse mouth. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms and effects, both acute and delayed: None known.

Indication of any immediate medical attention and special treatment needed: None known.

Note to Physician: Treat symptomatically. No known specific antidote.

SECTION 5 – FIREFIGHTING MEASURES

Flammable Properties: Non-Flammable

Explosive Properties: N/A
Suitable Extinguishing media: N/A
Unsuitable extinguishing media: N/A

Special hazards arising from the substance or mixture: Overheating in fire conditions may produce toxic

gases. Spilled material will be extremely slippery. Contain firefighting water runoff if able. **Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

Further information: If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

SECTION 6 – ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid breathing vapor/mist. Ensure adequate ventilation. Evacuate personnel to safe areas. Spilled material will be extremely slippery.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Soak up with absorbent material and contain for disposal.

Methods and materials for containment and cleaning up: Keep in suitable, closed containers for disposal. **Other Information:** Landfill in accordance with local, state, and federal regulations.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of aerosols. Provide appropriate exhaust ventilation. For precautions see Section 2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place.



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Control parameters

Components with workplace control parameters: None

ACGIH Threshold Limit Values (TLV)

Not determined

NIOSH Recommended Exposure Limits

Not determined

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Maintain appropriate ventilation. Wash hands before breaks and at the end of workday. Eye wash and safety shower should be in the immediate work area.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

<u>Skin protection:</u> Handle with impermeable gloves and apron. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

<u>Respiratory protection</u>: Where risk assessment shows air-purifying respirators are appropriate use a full-face vapor / particle respirator as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, amber liquid with slight organic odor

pH: 6.0

Specific Gravity: 1.140 / 9.51 lb/gal

Molecular Weight: Mixture
Water Solubility: Complete
Melt/Freeze Point: -5 C / 23 F

Boiling Point: Not determined **Flammability:** Not Flammable

Flash Point: N/A Vapor Density: NA

Note: Physical Data is typical values based on material tested, but may vary based on

composition. Values should not be accepted as guaranteed for every lot or as

specifications for this product.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under normal conditions of use and storage

Possibility of hazardous reactions: No data available

Conditions to avoid: None known

Incompatible materials: Strong acids and oxidizers. **Hazardous decomposition products:** None known.



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SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity LD50 Oral - Rat - >2,000 mg/kg.

Inhalation: Not an aspiration hazard

Skin corrosion/irritation: Non-irritating
Serious eye damage/eye irritation: Non-irritating

Respiratory or skin sensitization: Not expected to be a sensitizer

Germ cell mutagenicity: None known.

Carcinogenicity: IARC, ACGIH, NTP, and OSHA: No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

Specific target organ toxicity - single exposure:

No data available

Specific target organ toxicity - repeated exposure:

No data available

Aspiration hazard:

No data available

Additional Information: None.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity: Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) 7.1 mg/l 96 hr

EC-50 Daphnia magna 20mg/l 48 hr (static, in humic acid)

Persistence and degradability: Not Expected Bioaccumulative potential: No data available

Mobility in soil: No data available. Product is water soluble, so will likely move within the aquifer.

Other adverse effects: Harmful to aquatic life.

SECTION 13 – DISPOSAL CONSIDERATION

Waste treatment methods:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

P501 Dispose of contents/container in accordance with local/state/federal regulations

Contaminated Packaging: Do not reuse container for potable / food contact. Wash and rinse thoroughly

before reuse / recycling

SECTION 14 – TRANSPORT INFORMATION (USDOT)

Proper shipping Name: Proprietary Resin Compound, Non-Regulated Liquid Polymer

Hazard Class: Non-Hazardous

UN/ID NoPacking GroupReportable Quantity (RQ)Description:N/A

After Hours: CHEMTREC 1-800-424-9300

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SECTION 15 – REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

DSL: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL).

CERCLA: (Comprehensive Emergency Response Compensation, and Liability Act): Product is not found in "List of Hazardous Substances and Reportable Quantities" (40 CFR 302.4): None

RCRA: (Resource Conservation/Recovery Act): No

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Considered an Acute Health Hazard

STATES: Massachusetts Right to Know Components, Pennsylvania Right To Know Components, New Jersey Right To Know Components:

1,2-Ethanediamine, polymer with (chloromethyl) oxirane and N-methylmethanamine CAS #42751-79-1 California Prop. 65 Components: This product contains a chemical known to State of California to cause cancer or reproductive harm.

SECTION 16 – OTHER INFORMATION

Fire Protection Association (NFPA) Ratings:

NSF Certification: Certified for potable water use up to 20 mg/L

100

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.

Disclaimer: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.