

MEGAFLOC 851

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: MEGAFLOC 851
Common Name: Mixture
SDS Number: 0052
Product Code: WT0031
Revision Date: 9/18/2019
Version: 3
Product Use: Wastewater Treatment
Supplier Details: U.S. Water, a Kurita company
12270 43rd St. NE
St. Michael, MN 55376
Contact: Non-emergency #: 866-663-7632
Email: SDS@uswaterservices.com
Web: www.uswaterservices.com

EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Dermal
Health, Acute toxicity, 5 Oral
Health, Specific target organ toxicity - Single exposure, 3
Health, Skin corrosion/irritation, 1 A

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H313 - May be harmful in contact with skin
H303 - May be harmful if swallowed
H335 - May cause respiratory irritation
H314 - Causes severe skin burns and eye damage

GHS Precautionary Statements:

P281 - Use personal protective equipment as required.
P302+352 - IF ON SKIN: Wash with soap and water.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P304+341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

3 COMPOSITION/INFORMATION OF INGREDIENTS

Concentration values are expressed in (weight % / weight %)

Chemical Ingredients:	
CAS#	% Chemical Name:
1327-41-9	10-30% Aluminum chloride, basic

4 FIRST AID MEASURES

- Inhalation:** Remove from contamination. If person has stopped breathing administer artificial respiration. If symptoms persist, seek medical attention.
- Skin Contact:** Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy. Consult a physician if irritation develops.
- Eye Contact:** Flush eyes with plenty of running water for several minutes. Seek medical attention if irritation persists.
- Ingestion:** If conscious, give plenty of water. If discomfort or other symptoms develop, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- Most important symptoms & effects (acute & delayed):** No data available
- Indication of need for immediate medical attention:** No data available
- Special treatment needs:** No data available

5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Thermal decomposition may produce hydrogen chloride or aluminum oxides.

Unusual Fire or Explosion Hazards: None known other than material can splatter above 100°C (212°F)

Special protective equipment/precautions: Wear self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment, emergency procedures: Avoid contact with the material. See section 8 of SDS for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

Spill/Leak procedures: Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

MEGAFLOC 851**7 HANDLING AND STORAGE**

- Handling Precautions:** Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!
- Storage Requirements:** Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in accordance with all local, state and federal guidelines.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Provide local exhaust ventilation as needed to control misting.
- Personal Protective Equipment:** Respiratory protection: If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.
PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)
- Exposure Limits:**
OSHA (TWA)/PEL: Not Established
ACGIH (TWA)/TLV: Not Established

9 PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|-------------------------------|---------------------------|------------------------------|-----------------------|
| Appearance: | Clear, colorless to amber | Odor: | Pungent chlorine odor |
| Physical State: | Liquid | Solubility: | Complete in water |
| Odor Threshold: | Not determined | Freezing/Melting Pt.: | -5°C / 23°F |
| Spec Grav./Density: | 1.27 / 10.63 lb/gal | Flash Point: | None |
| Viscosity: | Not determined | Vapor Density: | 1.3 |
| Boiling Point: | 110°C / 230°F | Auto-ignition Temp: | Not determined |
| Partition Coefficient: | Not determined | UFL/LFL: | Not determined |
| Vapor Pressure: | 18 mm Hg @ 20°C | | |
| pH: | <1 | | |
| Evap. Rate: | Not determined | | |
| Decomp Temp: | Not determined | | |

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STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal storage and use conditions.
Conditions to Avoid:	Avoid temperature extremes. Avoid any reactive material of any sort. Protect from freezing.
Materials to Avoid:	Mild steel, carbon steel or copper alloys. Rapidly corrodes most materials.
Hazardous Decomposition:	Reacts with lime and other basic materials to form insoluble iron salts.
Hazardous Polymerization:	Will not occur.

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TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin Corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available
Carcinogenicity:	No carcinogenic effects are known for the components of this product
Germ Cell Mutagenicity:	No mutagenic effects are known for the components of this product
Teratogenicity:	No teratogenic effects are known for the components of this product

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ECOLOGICAL INFORMATION

Aquatic Toxicity: This material is not classified as dangerous for the environment. At environmentally relevant pH 5, 5 - 8, the solubility of aluminium is low. Aluminium salts dissociate with water resulting in rapid formation and precipitation of aluminium hydroxides. At pH <5.5, the free ion (Al³⁺) becomes the prevalent form, the increased availability at this pH is reflected in higher toxicity. At pH 6.0-7.5, solubility declines due to the presence of insoluble Al(OH)₃. At higher pH (pH >8.0), the more soluble Al(OH)₄⁻ species predominate, which again increases availability.

Danio rerio / 96hr / >1,000 mg/L

Daphnia magna / 48hr / 98 mg/L

Elimination (persistence & degradability):

Biological degradability: Remarks: When reacting with water on pH range 6-9 precipitates of aluminium hydroxides are formed. The methods for determining biodegradability are not applicable to inorganic substances.

Chemical degradation: Aluminium chloride, basic / Polyaluminium chloride: When reacting with water on pH range 5,8 - 8 precipitates of aluminium hydroxides are formed.

Bioaccumulative potential: The product is not expected to bioaccumulate.

Partition coefficient: n-octanol/water: Not applicable, inorganic compound

Aluminium chloride, basic / Polyaluminium chloride:

Partition coefficient: n-octanol/water: Not applicable, inorganic compound

Mobility in soil:

Water solubility: completely soluble (20°C)

Surface tension: not determined

Other adverse effects: No data available

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13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14 TRANSPORT INFORMATION

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (Polyaluminum Chloride), 8, PG III

15 REGULATORY INFORMATION**Component (CAS#) [%] - CODES**

Aluminum chloride, basic (1327-41-9) [10-30%] TSCA

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory CODE Descriptions**TSCA = Toxic Substances Control Act**

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

EPA / CERCLA / SARA TITLE III:

CERCLA List: This product does not contain any CERCLA listed hazardous substances.

Toxic Chemical List (SARA 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.

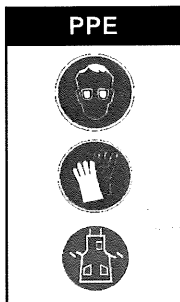
SARA 312: Acute

RCRA: Corrosive, D002

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OTHER INFORMATION



Author: U.S. Water, a Kurita company

Revision Notes: Updated to GHS format

Disclaimer:

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Revision Date: 9/18/2019