

1. IDENTIFICATION

Product information

Product name
SUPERFLOC A-110

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture

Flocculating agent

Recommended restrictions on use

For professional and industrial installation and use only.

Supplier's details

Kemira Chemicals, Inc.
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30339 Atlanta USA
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HEAD OFFICE
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Telephone +358108611 Telefax +358108621124

Emergency telephone number

CHEMTREC (24 Hours): 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

The product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).,

GHS-Labeling

Product is not hazardous under US GHS.

Hazard(s) not otherwise classified (HNOC) or not covered/classified by GHS

Advice; Forms slippery/greasy layers with water.

Potential environmental effects; This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substances /Mixtures**

Mixture
Chemical nature : Anionic polyacrylamide.

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

4. FIRST AID MEASURES**Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

Inhalation

No hazards which require special first aid measures. Remove to fresh air.

Skin contact

Wash off with soap and water.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If possible use lukewarm water.

Ingestion

Rinse mouth with water. Call a physician if symptoms occur. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms : No symptoms known or expected.

Hazards : No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Treatment : Symptomatic treatment.

5. FIREFIGHTING MEASURES**Suitable extinguishing media**

Water spray

Dry chemical

Carbon dioxide (CO₂)**Unsuitable extinguishing media**

No special requirements.

Special hazards arising from the substance or mixture

Dust may form explosive mixture in air.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Use NIOSH/MSHA approved respiratory protection.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For personal protection see section 8.

Environmental precautions

Should not be released into the environment.

Methods and materials for containment and cleaning up

Product becomes slippery when it is wet. Take up mechanically and collect into suitable containers for disposal. After cleaning, flush away traces with water.

Additional advice

For personal protection see section 8.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation during handling. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities

Store in original container.

Materials for packaging

Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

Materials to avoid:

Strong oxidizing agents

Storage stability:

Storage temperature 40 - 90 °F

Other data Stable under recommended storage conditions.

Reason:
integrity

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation.

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment**Industrial Hygiene**

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Hand protection

Glove material: Impervious gloves, Permeability tests are not available for this product. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection

Protective clothing.

Eye protection

Safety goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	solid
Form	powder
Colour	off-white
Odour	odourless
Odour Threshold pH	Not relevant 6 - 8 Concentration: 0.5 % Aqueous solution
Freezing point/Melting point :	not determined
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Explosive properties:	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Vapour pressure	Not applicable
Relative vapour density	No data available
Density	No data available
Relative density	No data available
Bulk density	750 - 950 g/l
Solubility(ies):	
Water solubility	Limited by viscosity.
Partition coefficient: n-	

octanol/water	No data available
Auto-ignition temperature	> 200 °C
Decomposition temperature	392 °F
Viscosity:	
Viscosity, dynamic	Not applicable
Viscosity, kinematic	Not applicable
Oxidizing potential	No data available The substance or mixture is not classified as oxidizing.
Volatile organic content (VOC)	No data available
Surface tension	Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions.

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

Hazardous polymerisation does not occur.

Conditions to avoid

Material is stable under normal conditions.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Ammonia
Carbon dioxide (CO₂)
Carbon monoxide (CO)
Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity	<p>Conclusion: The acute toxicological results displayed may not be the results of actual testing of this material but based on a similar tested material.</p> <p>LD50/Rat/> 5,000 mg/kg Remarks: estimated</p>
Acute inhalation toxicity	<p>LC50/Rat/4 h/> 20 mg/l Remarks: estimated</p>
Acute dermal toxicity	<p>LD50/Rabbit/> 10,000 mg/kg Remarks: estimated</p>
Skin corrosion/irritation	<p>Conclusion: No skin irritation</p>
Serious eye damage/eye irritation	<p>Conclusion: No eye irritation</p>
Respiratory or skin sensitisation	
Skin sensitisation	<p>Conclusion: Not sensitizing.</p>
Germ cell mutagenicity	
Genotoxicity in vivo	<p>Conclusion: Based on available data, the classification criteria are not met.</p>
Carcinogenicity	
Carcinogenicity	<p>Based on available data, the classification criteria are not met.</p>
Reproductive toxicity	
Toxicity for reproduction	<p>Conclusion: Based on available data, the classification criteria are not met. /The substance or mixture is not classified as specific target organ toxicant, single exposure.</p>
Specific target organ toxicity - single exposure	<p>/The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p>
Specific target organ toxicity - repeated exposure	<p>/The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p>
Aspiration hazard	
Aspiration toxicity	<p>No aspiration toxicity classification</p>

12. ECOLOGICAL INFORMATION**Ecotoxicity effects****Aquatic toxicity**

Remarks: Ecotoxicological information provided is based on a structurally or compositionally similar product.
LC50/96 h/Lepomis macrochirus (bluegill sunfish)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l

Remarks: fresh water
LC50/96 h/Oncorhynchus mykiss (rainbow trout)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l

Remarks: fresh water

Remarks: Ecotoxicological information provided is based on a structurally or compositionally similar product.
EC50/48 h/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 100 mg/l
EC50/10 d/Corophium volutator (amphipoda)/Immobilization/OECD Test Guideline 202: 1,415 mg/l
EC50/48 h/Acartia tonsa (copepod)/Immobilization/OECD Test Guideline 202: 342 mg/l
IC50/72 h/Green algae (Selenastrum capricornutum)/Growth inhibition/OECD Test Guideline 201: > 100 mg/l
IC50/72 h/Skeletonema costatum (diatom)/Growth inhibition/OECD Test Guideline 201: 2,276 mg/l

Toxicity to other organisms

No data available

Persistence and degradability

Biological degradability:
Closed Bottle test/OECD Test Guideline 301 D/28 d: < 70 %

Not readily biodegradable.

Seawater Shake Flask Method/OECD Test Guideline 306/28 d: 1.7 %
Remarks: seawater
Not readily biodegradable.

Bioaccumulative potential

Partition coefficient: n-octanol/water: No data available

Mobility in soil

Water solubility: Limited by viscosity.
Surface tension: Not applicable

Other adverse effects

No data available

Additional ecological information: Ecotoxicological information provided is based on a structurally or compositionally similar product. This material is not classified as dangerous for the environment. The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts.

13. DISPOSAL CONSIDERATIONS**Product**

Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

Packages must be disposed of according to local and national regulations.

14. TRANSPORT INFORMATION**Land transport**

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

Special precautions for user

None known.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Title III Section 311 Categories**

No SARA Hazards

SUPERFLOC A-110

Ref. /US/EN

Revision Date: 05/22/2021

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Print Date:01/12/2022

SARA 302 Extremely Hazardous Substances

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

SARA 313 - Specific Toxic Chemical Listings

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.

California Proposition 65

WARNING: This product contains a chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to

www.P65Warnings.ca.gov.

Acrylamide (79-06-1) < 0.05 %

Notification status

USA	:	All components of this product are included in the United States TSCA Chemical Inventory with Active Status or are not required to be listed on the United States TSCA Chemical Inventory.
Canada	:	All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
European Union	:	All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
Australia	:	All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on the Australian Inventory of Industrial Chemicals (AIIC).
China	:	All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
Japan	:	All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
South Korea	:	All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
Philippines	:	All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
New Zealand	:	All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory(NZIoC).
Taiwan	:	All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

16. OTHER INFORMATION**HMIS Rating**

Health: 0

Flammability: 1

Reactivity: 0

NFPA Rating

Health: 0

Fire: 1

Reactivity: 0

Training advice

Read the safety data sheet before using the product.

Further information

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.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.

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