

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

Kemira

SUPERFLOC A-100

Version
1.8

Revision Date:
04/16/2026

Date of last issue: 04/16/2026
Date of first issue: 02/12/2015

SECTION 1. IDENTIFICATION

Product name : **SUPERFLOC A-100**
Other means of identification : Anionic polyacrylamide

Manufacturer or supplier's details

Company name of supplier : Kemira Water Solutions, Inc.
Address : 200 Galleria Parkway, Suite 1500
Atlanta GA 30339-5979
Telephone : (770) 436-1542
Telefax : (770) 436-3432
E-mail address of person responsible for the SDS : us-customerservice@kemira.com
Emergency telephone : CHEMTREC (24 Hours): 1-800-424-9300

Initial Supplier Identifier
Données relatives au fournisseur

Univar Solutions Canada Ltd.

64 Arrow Road
North York, ON M9M 2L9
Telephone: 1-866-686-4827

Recommended use of the chemical and restrictions on use

Recommended use : Water treatment chemical

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Not a hazardous substance or mixture.

Other hazards

Avoid spillage on floor as the product can become very slippery when wet.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Anionic polyacrylamide.

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Urea	57-13-6*	$\geq 8.3 - \leq 14.3$	-

* Indicates that the identifier is a CAS No.

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.
Show this material safety data sheet to the doctor in attendance.

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If inhaled	: Remove to fresh air. If there is difficulty in breathing, medical advice is required.
In case of skin contact	: Wash off with soap and water.
In case of eye contact	: In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
If swallowed	: No hazards which require special first aid measures. 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	: No symptoms known or expected. No known significant effects or critical hazards.
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Product is compatible with standard fire-fighting agents. The product itself does not burn.
Unsuitable extinguishing media	: High volume water jet Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	: The product itself does not burn. Forms slippery/greasy layers with water.
Hazardous combustion products	: Carbon oxides (COx) Nitrogen oxides (NOx) Ammonia Smoke
Specific extinguishing methods	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Suppress (knock down) gases/vapors/mists with a water spray jet. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Further information	: Forms slippery/greasy layers with water.
Special protective equipment for fire-fighters	: Use NIOSH/MSHA approved respiratory protection.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : For personal protection see section 8.
Material can create slippery conditions.
- Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
If the product contaminates rivers and lakes or drains inform respective authorities.
- 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.

SECTION 7. HANDLING AND STORAGE

- Technical measures : Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").
- Advice on protection against fire and explosion : No special precautions required.
- Advice on safe handling : Provide for appropriate exhaust ventilation and dust collection at machinery.
Minimize dust generation and accumulation.
- Conditions for safe storage : The product is hygroscopic.
Protect from moisture.
- Further information on storage conditions : Aqueous solutions or powders produce extremely slippery surfaces.
- Materials to avoid : No special restrictions on storage with other products.
- Recommended storage temperature : < 104 °F / < 40 °C
- Storage period : 24 Months
- Further information on storage stability : Recommended storage temperature for quality reasons.
The product is chemically stable.
No decomposition if stored normally.
- Packaging material : Suitable material: Polypropylene, Polyethylene, PVC, polyester with fibreglass reinforcement, stainless steel (AISI 304), acid-resistant steel (AISI 316)
Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parameter	Basis
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		(Form of exposure)	ters / Permissible concentration	
Urea	57-13-6	TWA	10 mg/m3	US WEEL

Engineering measures : Maintain air concentrations below occupational exposure standards.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment

Respiratory protection : When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.
Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.

Hand protection
Material : Impervious gloves

Remarks : Permeability tests are not available for this product. Please observe the instructions regarding permeability and break-through 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.

Eye protection : Safety goggles
Skin and body protection : Protective clothing.
Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands and face before breaks and immediately after handling the product.
Avoid dust formation.
Do not breathe dust.
Use personal protective equipment.
Eye wash bottle or emergency eye-wash fountain must be found in the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before eating, drinking, or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : white

Odor : odorless

Odor Threshold : Not applicable

pH : 6 - 8 (77 °F / 25 °C)
Concentration: 0.5 %

Melting point/freezing point : Decomposes before melting.

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Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard, Not expected to form explosive dust-air mixtures.
Upper explosion limit / Upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density	: Not applicable
Relative density	: not determined
Density	: not determined
Bulk density	: 650 - 850 kg/m ³
Solubility(ies)	
Water solubility	: > 5 g/l Limited by viscosity. (77 °F / 25 °C)
Partition coefficient: n-octanol/water	: log Pow: << 4 Method: OECD Test Guideline 107 Information refers to the main ingredient.
Autoignition temperature	: does not ignite
Decomposition temperature	: > 302 °F / > 150 °C Method: ISO 11358 No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Surface tension	: Surface activity is not to be expected.
Minimum explosible dust concentration	: Not applicable
Particle characteristics	
Assessment	: This substance/mixtures does not contain nanomaterials.

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: None reasonably foreseeable.
Conditions to avoid	: Avoid contact with alkaline materials which will degrade the polymer. Avoid moisture.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), dense black smoke. Ammonia

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	: LD50 Oral: > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Read-across (Analogy)
Acute inhalation toxicity	: Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: Dust
Acute dermal toxicity	: LD50 Dermal (Albino rabbit): > 10,000 mg/kg Method: No guideline followed

Components:

Urea:

Acute oral toxicity	: LD50 (Rat): 14,300 mg/kg
Acute dermal toxicity	: Remarks: No data available

Skin corrosion/irritation

Not classified due to lack of data.

Components:

Urea:

Species	: human
Exposure time	: 72 h
Method	: No guideline followed
Result	: No skin irritation

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Serious eye damage/eye irritation

Not classified due to lack of data.

Components:

Urea:

Species : human
Result : No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Components:

Urea:

Remarks : No data available

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Urea:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium (bacterium)
Metabolic activation: with and without
Result: In vitro mutagenicity test were negative in some cases and positive in other cases.

Test Type: Cytogenetic assay
Test system: mammalian cells (CHO)
Metabolic activation: with and without
Result: Ambiguous results

Test Type: Cytogenetic assay
Test system: Mouse
Result: Ambiguous results

Carcinogenicity

Not classified due to lack of data.

Components:

Urea:

Species : Mouse
Application Route : Oral

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

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identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified due to lack of data.

Components:

Urea:

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: Acute toxicity
Method: OECD Test Guideline 203
Remarks: Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: Immobilization
Test substance: Read-across (Analogy)
Method: OECD Test Guideline 202

EC50 (Acartia tonsa (copepod)): 342 mg/l
Exposure time: 48 h
Test Type: Immobilization
Test substance: Read-across (Analogy)
Method: PARCOM SOP 106

Toxicity to algae/aquatic plants : IC50 (Green algae (Selenastrum capricornutum)): > 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

IC50 (Skeletonema costatum (diatom)): 2,276 mg/l
Exposure time: 72 h

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Test Type: Growth inhibition
Method: PARCOM SOP 104

Sediment toxicity : EC50 (Corophium volutator (amphipoda)): 1415 mg/l
Exposure duration: 10 d
Method: PARCOM SOP 102
Remarks: Read-across (Analogy)

Components:

Urea:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 21,060 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,910 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Microcystis aeruginosa (algae)): 5,000 mg/l
Exposure time: 5 d

Persistence and degradability

Product:

Biodegradability : Test Type: Closed Bottle test
Biodegradation: < 10 %
Exposure time: 28 d
Method: OECD Test Guideline 306
Test substance: Read-across (Analogy)
Remarks: The polymeric ingredient is not readily biodegradable.

Components:

Urea:

Biodegradability : Result: Readily biodegradable

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Components:

Urea:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: < -1.73 (68 °F / 20 °C)

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Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Information given is based on data on the ingredients and the ecotoxicology of similar products.
This product has no known ecotoxicological effects.

Endocrine disrupting properties

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Recycling, recovery and reuse of materials is recommended if permitted by regulations.
Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Must be disposed of in accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Remarks : None known.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

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SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : 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 Prop. 65

WARNING: This product can expose you to chemicals including Acrylamide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

US TSCA	: 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.
CA. DSL	: 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).
EN EINECS	: 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.
AIIC	: 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).
CN IECSC	: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
JP ENCS	: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
KR KECL	: All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
PH PICCS	: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
NZ NZIoC	: 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).
TW TCSI	: All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

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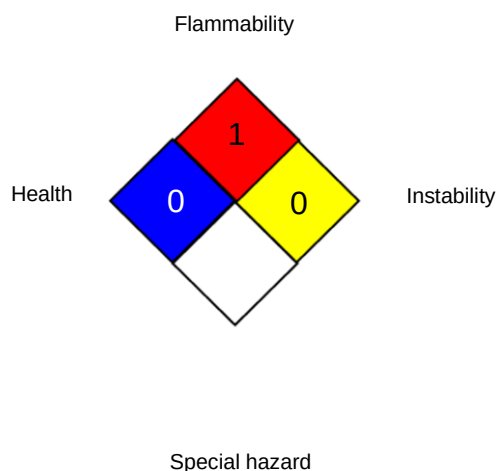
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No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV / CED:

HEALTH	/	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New

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Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Relevant changes have been marked with vertical lines.

This Safety Data Sheet is prepared according to the US OSHA HCS 2024 (29 CFR 1910.1200), an adoption of the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Sources of key data used to compile the Material Safety Data Sheet : Regulations, databases, literature, own tests.
Revision Date : 04/16/2026

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.

US / EN