

FLOQUAT 100

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 11/23/2020

Revision date: 11/23/2023

Version: 1.1



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name : FLOQUAT 100
CAS-No. : 26062-79-3
Product code : FLOQUAT 100
Type of product : Polymers
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Water Treatment

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Improchem (Pty) Ltd T/A AECI Water
1 Wharhirst Road
Umbogintwini - South Africa
T +27 (031) 949 8200

1.4. Emergency telephone number

Emergency number : 0800 SPILLS OR 0800 774557

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

Causes skin and eye irritation. Aquatic toxicity is reduced by factors from 10 to 100 times in the presence of 5 to 10 mg/l organic carbon as is found in most surface waters.

The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and dissolved organics.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : Dispose of in accordance with relevant local regulations
Wash hands and face thoroughly after handling
MUL is 33 mg/L

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : FLOQUAT 100
CAS-No. : 26062-79-3

Name	Product identifier	%
Polydadmac	(CAS-No.) 26062-79-3	6 – 12

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

FLOQUAT 100

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell. Specific treatment see section 4 of SDS.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Treat symptomatically.
First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Soap may be used. Treat symptomatically.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist if irritation persists. Do not apply neutralizing agents.
First-aid measures after ingestion	: Do NOT induce vomiting. Drink plenty of water. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: No effects known.
Symptoms/effects after skin contact	: May cause skin irritation to sensitive individuals.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Polyvalent foam. BC powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
Other information	: Spill area may be slippery.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area. Eliminate every possible source of ignition. If spilled, may cause the floor to be slippery.
------------------	---

6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Protective clothing. See "Material-Handling" to select protective clothing.
Emergency procedures	: Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel. Spill area may be slippery. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill.
Methods for cleaning up	: Take up liquid spill into inert absorbent material, e.g.: sand/kieselguhr. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

FLOQUAT 100

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin, eyes and clothing. Clean contaminated clothing. Do not breathe vapours. Do not discharge the waste into the drain. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide local exhaust or general room ventilation.
- Storage conditions : Keep away from ignition sources. Keep container tightly closed and dry. Keep in a cool, well-ventilated place away from acids.
- Incompatible products : Oxidizing agent.
- Incompatible materials : Corrosion tests were done using Polydadmac and the Corrosion Rate was 1.68 mm/year which is less than max of 6.25 mm/year, above which a product is classified as corrosive.
- Storage temperature : < 50 °C
- Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.
- Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases.
- Storage area : Protect against frost. Meet the legal requirements.
- Special rules on packaging : SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
- Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Gloves, shoulder length. Protective clothing. Protective goggles. Safety Boots. Insufficient ventilation: wear respiratory protection.
- Materials for protective clothing : GIVE GOOD RESISTANCE: PVC
- Hand protection : Gloves, shoulder length
- Eye protection : Protective goggles
- Skin and body protection : Protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment



- Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid.
- Colour : Clear to pale yellow.
- Odour : Characteristic odour. Mild odour.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : Not applicable

FLOQUAT 100

Safety Data Sheet

according to Regulation (EU) 2015/830

Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: > 400 °C
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.04 – 1.08 kg/l @ 25 C
Solubility	: Soluble in water. Water: soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 1000 – 2000 cP
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Other properties : Clear. Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

On heating/burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide). Reacts with (strong) oxidizers. Reacts with (some) bases.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Corrosion tests were done using Polydadmac and the Corrosion Rate was 1.68 mm/year which is less than max of 6.25 mm/year, above which a product is classified as corrosive.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

FLOQUAT 100 (26062-79-3)

LD50 oral rat	> 2000 mg/kg (Rat)
---------------	--------------------

Polydadmac (26062-79-3)

LD50 oral rat	> 2000 mg/kg (Rat)
---------------	--------------------

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

FLOQUAT 100

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 12: Ecological information

12.1. Toxicity

- Ecology - general : Slightly harmful to the environment.
- Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.5.
- Ecology - water : Aquatic toxicity is reduced by factors from 10 to 100 times in the presence of 5 to 10 mg/l organic carbon as is found in most surface waters.
The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and dissolved organics.

FLOQUAT 100 (26062-79-3)

LC50 fish 1	0.1 – 1 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
-------------	---

Polydamac (26062-79-3)

LC50 fish 1	0.1 – 1 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
-------------	---

12.2. Persistence and degradability

FLOQUAT 100 (26062-79-3)

Persistence and degradability	Not readily biodegradable in water. No (test) data on mobility of the substance available. Photolysis in the air.
-------------------------------	--

Polydamac (26062-79-3)

Persistence and degradability	Not readily biodegradable in water. No (test) data on mobility of the substance available. Photolysis in the air.
-------------------------------	--

12.3. Bioaccumulative potential

FLOQUAT 100 (26062-79-3)

Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
---------------------------	--

Polydamac (26062-79-3)

Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
---------------------------	--

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Specific preliminary treatment. Remove to an authorized incinerator with energy recovery. Do not discharge into drains or the environment.
- Additional information : Hazardous waste according to Directive 2008/98/EC.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

- UN-No. (ADR) : Not Subject
- UN-No. (IMDG) : Not applicable
- UN-No. (IATA) : Not applicable

14.2. UN proper shipping name

- Proper Shipping Name (ADR) : Not Regulated
- Proper Shipping Name (IMDG) : Not applicable
- Proper Shipping Name (IATA) : Not applicable
- Transport document description (ADR) : UN Not Subject Not Regulated

14.3. Transport hazard class(es)

ADR

FLOQUAT 100

Safety Data Sheet

according to Regulation (EU) 2015/830

Transport hazard class(es) (ADR) : Not applicable
:

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

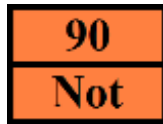
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Orange plates :



- Transport by sea

Transport regulations (IMDG) : Subject to the provisions

- Air transport

Transport regulations (IATA) : Subject to the provisions

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
FLOQUAT 100 is not on the REACH Candidate List
FLOQUAT 100 is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 2696)
WGK remark : Classification water polluting based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 3)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

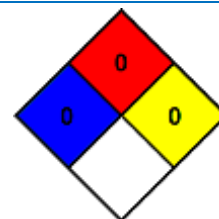
SECTION 16: Other information

FLOQUAT 100

Safety Data Sheet

according to Regulation (EU) 2015/830

- NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



SDS ImproChem Test

"DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. IMPROCHEM T/A AECI Water MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether AECI Water's product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the AECI Water product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate AECI Water product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. AECI Water provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, AECI Water makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from AECI Water."