
SAFETY DATA SHEET

1 Identification of the substance or preparation and the supplier

Product Name: **BILGEWATER FLOCCULANT**
 Datasheet Number: 690669 2.0.0
 Use of the substance/preparation: Water treatment, Ballast water treatment
 Product Part Number: 690669 (25 liter)

Name of Supplier: Unitor ASA
 Address of Supplier: Willem Barentszstraat 50
 3165 AB Rotterdam-Albrandswaard
 The Netherlands

Telephone: +31 10 4877 777
 Fax: +31 10 4877 888
 Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736

Name of Manufacturer: UNITOR CHEMICALS AS
 Address of Manufacturer: P.O.Box 15
 3141 Kjøpmannskjær
 Norway.

Telephone: +47 333 515 00

Emergency Telephone: NCEC: +44 1865 407333
 CHEMTREC (800) 424 9300
 CMA +1 703 527 3887
 Greece +30 1 7793777

2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Aluminium chloride, anhydrous	10-30	7446-70-0	231-208-1	34	C
Non classified ingredients	70-90				

3 Hazards identification

- Odour: Odourless
- Appearance: Liquid, colourless to yellow, soluble in water
- Contact with eyes: Severely irritating to eyes
- Contact with skin: Causes burns (R34)
- Inhalation: Causes irritation
- Ingestion: The ingestion of significant quantities may cause gastro-intestinal disturbances



Corrosive

4 First aid measures

Contact with skin

- Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water
- Seek medical advice if necessary
- Contaminated clothing should be laundered before reuse

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention

Ingestion

- Do not induce vomiting
- Never give anything by mouth to an unconscious person
- Give water or milk to drink
- Obtain immediate medical attention

Inhalation

- Inhalation is unlikely to occur
- Keep warm and at rest
- Seek medical attention if ill effects occur

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
- When in doubt or symptoms persist, seek medical attention

5 Fire-fighting measures

- Non combustible
- Decomposition products may include hydrochloric acid
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8

Environmental Precautions

- No special requirements

Clean Up Actions

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete

Special Precautions

- Wear protective clothing as per section 8

7 Handling and storage

Handling

- Eyewash bottles should be available
- See Section 8

7 Handling and storage (....)

Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)

8 Exposure controls and personal protection

Exposure Limits

- TLV (TWA) 2 mg/m³ (Aluminium chloride, anhydrous)

Exposure controls

- No special precautions are required for this product

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- No respiratory protection is required unless subject to contact with substance mist



9 Physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, colourless to yellow, soluble in water
- pH 4 at 1 % concentration
- Boiling point >105 °C at 760 mm /Hg
- Vapour pressure - not known
- Vapour density - not applicable
- Freezing point - 17 °C at 760 mm/Hg
- Completely soluble in water
- Specific gravity (water=1) 1.30
- Non combustible
- Viscosity 9.5 mPa.s at 20 deg C

10 Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating, Keep away from frost, Avoid contact with oxidising substances
- See Section 5

11 Toxicological information

Toxicological information

- No experimental data available

11 Toxicological information (...)

Inhalation

- Inhalation is unlikely to occur
- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract

Contact with skin

- Prolonged skin or eye contact may cause chemical burns

Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

Ingestion

- The ingestion of significant quantities may cause gastro-intestinal disturbances
- The ingestion of significant quantities may cause damage to mucous membranes

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment

Mobility

- Completely soluble in water

Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.
 - Presents little or no hazard to the aquatic environment
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13 Disposal considerations

Classification

- EU Waste class: 06.03.00

Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
 - Disposal should be in accordance with local, state or national legislation
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14 Transport information

14 Transport information (....)


Corrosive

UN

Proper Shipping Name:	ALUMINIUM CHLORIDE, SOLUTION		
UN No.:	2581		
Hazard Class:	8	Packing Group:	III

Road/Rail (ADR/RID)

Proper Shipping Name:	ALUMINIUM CHLORIDE, SOLUTION		
ADR UN No.:	2581		
ADR Hazard Class:	8	Tremcard:	80GC1-II

Sea (IMDG)

Proper Shipping Name:	ALUMINIUM CHLORIDE, SOLUTION		
IMDG UN No.:	2581		
IMDG Hazard Class.:	8	IMDG Pack Group.:	III
IMDG EmS:	F-A, S-B	IMDG subrisk:	N/A
IMDG labels:	8	IMDG Flashpoint:	N/A

Air (ICAO/IATA)

Proper Shipping Name:	ALUMINIUM CHLORIDE, SOLUTION		
ICAO Un No.:	2581		
ICAO Hazard Class.:	8	ICAO Packing Group.:	III
ICAO subrisk:	N/A	ICAO Labels:	8, CAO
ICAO Flashpoint:	N/A		

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	ALUMINIUM CHLORIDE, SOLUTION		
Hazardous Material:	ALUMINIUM CHLORIDE		
Hazard Class:	8	Identification Number:	UN 2581
Product RQ (lbs):	N/A	DOT subrisk:	N/A
DOT labels:	8	DOT Flashpoint:	N/A

14 Transport information (....)

- Forbidden on passenger aircraft

15 Regulatory information



Corrosive

Applicable Laws

- This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

Risk Phrases

- Causes burns (R34)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

16 Other information

(R34: Causes burns.)

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)