
SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

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

1.1 Product identifier

- Product Name: BILGEWATER FLOCCULANT
- Product Part Number: 690669 (25 liter)

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

- Use of the substance/mixture: Water treatment

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
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- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
- Other suppliers SEE SECTION 16!!!
- For quotations contact your local Customer Services
-
- Responsible Person: Product HSE Manager,
- Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Telephone: Tel.: +31 10 4877775
- Responsible Person: Product HSE Manager,

1.4 Emergency telephone number

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
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- International 24hrs Emergency NCEC:+ 44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998
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- The Netherlands: National Poisons Information Centre + 31 30 274 88 88

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

SECTION 2 Hazards identification (....)

- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Symbols: Xi
- Risk of serious damage to eyes (R41)
-
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Signal Word: Danger
- Symbols: GHS05
- Eye Dam. 1
- Met. Corr. 1
- Causes serious eye damage (H318).
- May be corrosive to metals (H290).

2.2 Label elements

- Signal Word: Danger
-
- Contains:
- Polyaluminiumchloride hydroxide silicate
- Polydiallyldimethyl ammoniumchloride
-
- Hazard phrases
 - Causes serious eye damage (H318).
 - May be corrosive to metals (H290).
- Precautionary Phrases
 - Wash thoroughly after handling (P264).
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - Avoid breathing dust/fume/gas/mist/vapours/spray (P261).
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
 - Immediately call a POISON CENTER or doctor/physician (P310).

2.3 Other hazards

- Not applicable
- Not a PBT according to REACH Annex XIII
- Appearance: Liquid, viscous, amber
- Odour: Characteristic odour

SECTION 3 Composition/information on ingredients**3.1 Mixtures**

- Polydiallyldimethyl ammoniumchloride
 - Concentration: 1-5%
 - CAS Number: 26062-79-3

SECTION 3 Composition/information on ingredients (....)

EC Number: Not applicable
R/H Phrases: R52/53 - H412
Symbols: Not applicable
Categories: Aquatic Chronic 3

- Polyaluminiumchloride hydroxy silicate
 - Concentration: 30-60%
 - CAS Number: 1327-41-9
 - EC Number: 215-477-2
 - R/H Phrases: R41 - H318, H290
 - Symbols: Xi, GHS05
 - Categories: Eye Dam. 1, Met. Corr. 1
 - REACH REG. NO: 01-21195315 63-43
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SECTION 4 First aid measures

4.1 Description of first aid measures

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- Get immediate medical advice/attention (P315).
-
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
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- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
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- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell (P301+P312).
- Give plenty of water to drink
- Never give anything by mouth to an unconscious person

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
- Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
- The ingestion of significant quantities may cause gastro-intestinal disturbances
- The ingestion of significant quantities may cause dizziness
- The ingestion of significant quantities may cause diarrhoea

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
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SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

SECTION 5 Fire-fighting measures (....)

- Keep container(s) exposed to fire cool, by spraying with water
- 5.2 Special hazards arising from the substance or mixture

- In case of fire: (P370)
- Hydrogen chloride may be formed

5.3 Advice for firefighters

- In the event of an adjacent fire, cool containers with water spray
 - Wear Positive-Pressure Breathing Apparatus
-

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Do not flush spilt material into any public water system
- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

- See Section 13
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SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Eyewash bottles should be available
- See Section 8

7.2 Conditions for safe storage, including any incompatibilities

- Store between 0 and 20 °C

7.3 Specific end use(s)

- Contact supplier for further information
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SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- No exposure limits have been set for this substance

8.2 Exposure controls

- No special ventilation is required unless the product is used in a spray form

8.3 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
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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, colourless to yellow, soluble in water
- pH 1-2 at 100 % concentration
- Boiling point 100-120 °C to 760 °C
- Vapour pressure - not known
- Vapour density - not applicable
- Freezing point - 25 °C to 760 °C
- Completely soluble in water
- Specific gravity (water=1) 1.30
- Log Pow <<3

9.2 Other information

- No information available
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SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- Not applicable

10.4 Conditions to avoid

- Avoid overheating

10.5 Incompatible materials

- Incompatible with acids and alkalis
- Avoid contact with metals

10.6 Hazardous Decomposition Products

- Decomposition products may include nitrogen and carbon oxides
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) Acute: (Aluminiumchloride)>2000 mg/kg

11.2 Contact with eyes

- Causes redness and irritation

11.3 Contact with skin

- In cases of severe exposure, redness and irritation may develop

11.4 Ingestion

- The ingestion of significant quantities may cause gastro-intestinal disturbances

11.5 Inhalation

- Inhalation is unlikely to occur
 - Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
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SECTION 12 Ecological information

12.1 Toxicity

- LC50 (fish) >1000 mg/l (96 hr)
- EC50 (daphnia) 98 mg/l (48 hr)
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

12.2 Persistence and degradability

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

12.3 Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

12.6 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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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- 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

13.2 Classification

- EU Waste class: 06.03.11 / 06.03.13
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SECTION 14 Transport information

14.1 UN

- UN No.: UN3264
- Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
(polyaluminiumchloridehydroxysilicate solution)
- Hazard Class: 8
- Packing Group: III

14.2 Environmental hazards

- Not Classified

14.3 Special precautions for user

- No special precautions are required for this product

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

SECTION 14 Transport information (....)

- Not applicable

14.5 Road/Rail (ADR/RID)

- ADR UN No.: UN3264
- Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
(polyaluminiumchloridehydroxysilicate solution)
- ADR Hazard Class: 8
- ADR Packing Group: III

14.6 Sea (IMDG)

- IMDG UN No.: UN3264
- Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
(polyaluminiumchloridehydroxysilicate solution)
- IMDG Hazard Class: 8
- IMDG Pack Group.: III
- IMDG EmS: F-A, S-B

14.7 Air (ICAO/IATA)

- ICAO UN No.: UN3264
- Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
(polyaluminiumchloridehydroxysilicate solution)
- ICAO Hazard Class: 8
- ICAO Packing Group: III

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN3264
 - DOT Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
(polyaluminiumchloridehydroxysilicate solution)
 - DOT Labels: 8
 - Product RQ (lbs): Not applicable
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SECTION 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.

15.2 Chemical Safety Assessment

- None
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H290: May be corrosive to metals. H318: Causes serious eye damage. H412: Harmful to aquatic life with long lasting effects. R41: Risk of serious damage to eyes. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

SECTION 16 Other information (....)

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

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 most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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