



## SAFETY DATA SHEET STAR BILGE WATER FLOCCULANT

PRODUCT CODE: 00920031

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

#### 1.1. Product identifier

Product name STAR BILGE WATER FLOCCULANT

Product number 00920031

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

Identified uses Star Bilge Water Flocculant is a very effective liquid treatment based on Poly Aluminium Chloride (PAC) to separate oil residues from bilge water. It is iron-free, and is completely safe to the environment.

#### 1.3. Details of the supplier of the safety data sheet

Supplier STAR International  
Star House  
Turbine Business Park  
Turbine Road  
Birkenhead  
Merseyside  
CH41 9BA  
Tel: +44 (0) 1244 504 500  
Fax: +44 (0) 1244 504 504  
www.star-international.co.uk

#### 1.4. Emergency telephone number

Emergency telephone +44 (0) 1244 504 500 (Office hours only)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical hazards Met. Corr. 1 - H290

Health hazards Eye Dam. 1 - H318

Environmental hazards Not Classified

#### 2.2. Label elements

##### Hazard pictograms



Signal word Danger

Hazard statements H290 May be corrosive to metals.  
H318 Causes serious eye damage.

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**Precautionary statements**

P234 Keep only in original packaging.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P406 Store in a corrosion-resistant container with a resistant inner liner.  
 P501 Dispose of contents/ container in accordance with local regulations.

**Contains** POLYALUMINIUM HYDROXIDECHLORIDE SILICATE

**Supplementary precautionary statements**

P310 Immediately call a POISON CENTER/ doctor.  
 P390 Absorb spillage to prevent material damage.

### 2.3. Other hazards

Not available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>POLYALUMINIUM HYDROXIDECHLORIDE SILICATE</b>			<b>30-60%</b>
CAS number: 1327-41-9	EC number: 215-477-2	REACH registration number: 01-2119531563-43-XXXX	
<b>Classification</b>			
Met. Corr. 1 - H290			
Eye Dam. 1 - H318			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Rinse nose and mouth with water.

**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Wash contaminated clothing before reuse.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

**Eye contact** Severe irritation, burning and tearing.

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

**Notes for the doctor** No information available. No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

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### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Fire or high temperatures create: Hydrogen chloride (HCl).

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb in vermiculite, dry sand or earth and place into containers. Neutralise spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. Flush contaminated area with plenty of water.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry and cool place. Suitable containers: polyethylene, glass lined Unsuitable container materials: Common metals.

**Storage class** Corrosive storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

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<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). To protect hands from chemicals, gloves should comply with European Standard EN374.
<b>Hygiene measures</b>	Wash at the end of each work shift and before eating, smoking and using the toilet.
<b>Respiratory protection</b>	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. EN 136/140/145/143/149

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Yellowish.
<b>Odour</b>	Almost odourless.
<b>pH</b>	pH (concentrated solution): 0.4 - 2
<b>Melting point</b>	-10°C
<b>Initial boiling point and range</b>	100 - 200°C @
<b>Relative density</b>	1.30 - 1.37 @ 20°C
<b>Bulk density</b>	1280 - 1320 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Miscible with water.
<b>Viscosity</b>	40 cP @ 20°C

#### 9.2. Other information

<b>Other information</b>	Not available.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not available.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Chemically-active metals. Inorganic cyanides. Strong alkalis.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Hydrogen chloride (HCl).
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Skin corrosion/irritation

**Skin corrosion/irritation** May cause skin irritation.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

##### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

##### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** No information available.

##### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

##### Aspiration hazard

**Aspiration hazard** No information available.

##### Inhalation

May cause respiratory system irritation.

##### Ingestion

May cause internal injury.

##### Skin contact

May cause skin irritation/eczema.

##### Eye contact

Causes serious eye damage.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Toxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

##### Acute aquatic toxicity

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 260 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 1.5 - 2 mg/l, Algae

#### 12.2. Persistence and degradability

**Persistence and degradability** The product contains mainly inorganic substances which are not biodegradable. The other substances in the product are not expected to be readily biodegradable.

#### 12.3. Bioaccumulative potential

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**Bioaccumulative potential**      The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

**Mobility**      The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**      This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects**      Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information**      Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste.

**Disposal methods**      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)**      3264

**UN No. (IMDG)**      3264

**UN No. (ICAO)**      3264

**UN No. (ADN)**      3264

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)**      CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINIUM HYDROXIDECHLORIDE SILICATE)

**Proper shipping name (IMDG)**      CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINIUM HYDROXIDECHLORIDE SILICATE)

**Proper shipping name (ICAO)**      CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINIUM HYDROXIDECHLORIDE SILICATE)

**Proper shipping name (ADN)**      CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS POLYALUMINIUM HYDROXIDECHLORIDE SILICATE)

### 14.3. Transport hazard class(es)

**ADR/RID class**      8

**ADR/RID classification code**      C1

**ADR/RID label**      8

**IMDG class**      8

**ICAO class/division**      8

**ADN class**      8

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### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

IMDG Code segregation group	1. Acids
EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

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

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

Not applicable.

### SECTION 15: Regulatory information

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

##### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

#### 15.2. Chemical safety assessment

Not available.

### SECTION 16: Other information

#### General information

Only trained personnel should use this material.

## STAR BILGE WATER FLOCCULANT

<b>Key literature references and sources for data</b>	Health and Safety Executive (HSE). MARPOL 73/78 Annex II - Regulations for the Control of Pollution by Noxious Liquid Substances in Bulk. Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>Revision date</b>	20/04/2020
<b>SDS number</b>	21551
<b>Hazard statements in full</b>	H290 May be corrosive to metals. H318 Causes serious eye damage.
<b>Signature</b>	Auguste Little