



## OBRAFLOC 18

Version 2.0

Revision Date 13.12.2010

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### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product information

Trade name : OBRAFLOC 18  
Use of the Substance/Mixture : Flocculating agent, Agent for water treatment

Company : OKER-CHEMIE GMBH  
Im Schleeke 77  
38642 Goslar  
Germany

Telephone : +49 (0)53 21 - 7 51-34 15  
E-mail address : infoSDS@hcstarck.com  
Responsible Department : Corporate HSEQ  
Emergency telephone : +49(0)551/19240

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

|| Serious eye damage/eye irritation, Category 2 H319: Causes serious eye irritation.  
|| Skin corrosion/irritation, Category 2 H315: Causes skin irritation.

#### Classification (67/548/EEC, 1999/45/EC)

Irritant R36/38: Irritating to eyes and skin.  
May be corrosive to metals.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : solution

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	R-phrase(s)	GHS Classification	Concentration [%]
Aluminum chloride, basic	1327-41-9 215-477-2	Xi	R36/38	2; H319 2; H315	20 - 30

For the full text of the R-phrases mentioned in this Section, see Section 16.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

Inhalation : Remove to fresh air.  
If symptoms persist, call a physician.  
Skin contact : Wash off with soap and water.



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- If skin irritation occurs, seek medical advice/attention.
- Eye contact : Flush affected eyes with plenty of water immediately and call a physician.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Obtain medical attention.

### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Extinguishing methods depends upon fire in vicinity poses.  
The product itself does not burn.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : hydrogen chloride - Toxic, Corrosive
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ventilate the area.  
Avoid contact with skin, eyes and clothing.  
Use personal protective equipment.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Use mechanical handling equipment.  
Fill into labelled, sealable containers.

### 7. HANDLING AND STORAGE

#### Handling

- Advice on safe handling : Do not breathe vapours, aerosols.  
Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product.  
Avoid contact with the skin and the eyes.  
Ensure that the occupational exposure limit value/s (OEL) and/or other limit values are complied with.
- Advice on protection against fire and explosion : No special precautions required.

#### Storage



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Requirements for storage areas and containers : Comply with the directives governing water law  
Further information on storage conditions : Store in original container.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Limit Values

ALUMINIUM SALTS, SOLUBLE; CAS-No.: 1327-41-9

Basis : EH40 (UK)

#### Threshold limits

TWA : 2 mg/m<sup>3</sup>

Aluminum chloride, basic; CAS-No.: 1327-41-9

Basis : OEL (EU)

Note : No limit value established.

#### Personal protective equipment

Respiratory protection : Respiratory protective device with combination filter EN 14387 B - P2

Hand protection : Natural Rubber  
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

: Viton (R)  
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Keep working clothes separately.

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form : liquid

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006



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Colour : light yellow

Odour : odourless

**Safety data**

Flash point : Note: not applicable

Lower explosion limit : not applicable

Flammability (solid, gas) : not auto-flammable  
Method: Pyrophoric properties of solids and liquids

pH : 0,5 - 1,5

Melting point/range : -15 °C

Boiling point/boiling range : 105 - 115 °C

Density : ca.1,37 g/cm<sup>3</sup>  
at 20 °C

Water solubility : Note: completely miscible

**10. STABILITY AND REACTIVITY**

Conditions to avoid : > 50 °C

Materials to avoid : Bases  
Metals

Hazardous decomposition products : Gaseous hydrogen chloride (HCl).

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 3.450 mg/kg  
Species: rat  
Method: No information available.

Acute dermal toxicity : LD50: > 2.000 mg/kg  
Species: rat  
Method: No information available.

Skin irritation : Species: rabbit  
Result: irritating  
Method: No information available.

Eye irritation : Species: rabbit  
Result: irritating



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Method: No information available.

Sensitisation : Maximisation Test  
Species: guinea pig  
Result: Did not cause sensitization on laboratory animals.  
Method: No information available.

### 12. ECOLOGICAL INFORMATION

#### Further information on ecology

Additional ecological information : No information on ecology is available.

### 13. DISPOSAL CONSIDERATIONS

Product : The Federal, regional and local rules and regulations governing disposal must be complied with.  
: This product cannot be classified with disposal identification key acc. to the EU disposal directives as a classification results from the intended utilisation purpose of the consumer

### 14. TRANSPORT INFORMATION

#### ADR

UN-Number : 3264  
Description of the goods :  
(ALUMINUM HYDROXIDE CHLORIDE)  
Class : 8  
Packing group : III  
Classification Code : C1  
Hazard identification No : 80  
Labels : 8  
Tunnel restriction code : ( E )  
Environmentally hazardous : no

#### IATA

UN-Number : 3264  
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(ALUMINUM HYDROXIDE CHLORIDE)  
Class : 8  
Packing group : III  
Labels : 8  
Packing instruction (cargo aircraft) : 820  
Environmentally hazardous : no  
Packing instruction (passenger) : 818



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aircraft)

### IMDG

UN-Number : 3264  
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(ALUMINUM HYDROXIDE CHLORIDE)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
Marine pollutant : no

## 15. REGULATORY INFORMATION

### GHS-Labeling

Symbol(s) : 

Signal word : **Warning**

**contains :**  
Aluminum chloride, basic

Hazard statements	: H315 H319	Causes skin irritation. Causes serious eye irritation.
Precautionary statements	: <b>Prevention:</b> P264 P280  <b>Response:</b> P302 + P352 P332 + P313 P362 P305 + P351 + P338 P337 + P313	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.  IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Labelling according to EC Directives**  
Directive 1999/45/EC

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Labelling required

### Symbol(s)



Xi Irritant

### Hazardous components which must be listed on the label:

#### contains :

Aluminum chloride, basic

### R-phrase(s)

R36/38 Irritating to eyes and skin.

### S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### National legislation

**Major Accident Hazard Legislation** : 96/82/EC  
Annex I  
Number: Is not subject to the Seveso II Directive.

**Other regulations** : Comply with the directives acc to the EU Maternity Protection Act (92/85/EEC) with regard to occupational restrictions.  
Take note of Dir 94/33/EC on the protection of young people at work.

## 16. OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R36/38 Irritating to eyes and skin.

### Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**SAFETY DATA SHEET**  
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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.