

**OBRAFLOC 18**

Version 1.1

Revision Date 30.07.2009

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

**Trade name** : OBRAFLOC 18

**Use of the Substance/Preparation** : 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 & SIS - Product Safety

**Emergency telephone** : +49(0)551/19240

**2. HAZARDS IDENTIFICATION****Classification**

Irritating to eyes and skin.

**Additional risk advice to man and the environment**

May be corrosive to metals.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

solution

**Hazardous components**

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

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

**4. FIRST AID MEASURES**

**If inhaled** : Remove to fresh air.  
If symptoms persist, call a physician.

**In case of skin contact** : Wash off with soap and water.  
If skin irritation occurs, seek medical advice/attention.

**In case of eye contact** : Flush affected eyes with plenty of water immediately and call a physician.

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**If swallowed** : 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.

**Extinguishing media which shall not be used for safety reasons** : None known.

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases** : hydrogen chloride - Toxic, Corrosive

**Special protective equipment for fire-fighters** : Wear self-contained breathing apparatus and protective suit.

**Additional advice** : 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** : Glove material: 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).

: Glove material: 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

**Body Protection** : Protective suit

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

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

**Form** : liquid

**Color** : light yellow

**Odor** : odorless

**Safety data**

**pH** : 0,5 - 1,5

**Change in physical state**

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- **Melting point/range** : -15 °C
- **Boiling point/boiling range** : 105 - 115 °C
- Flash point** : not applicable
- Flammability (solid, gas)** : not auto-flammable  
Method: Pyrophoric properties of solids and liquids
- Explosion limits**
  - **Lower explosion limit** : not applicable
- Density** : ca. 1,37 g/cm<sup>3</sup>  
at 20 °C
- Solubility**
  - **Water solubility** : 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 rat 3.450 mg/kg  
Method: No information available.
- Acute dermal toxicity** : LD50 rat > 2.000 mg/kg  
Method: No information available.
- Skin irritation** : rabbit  
irritating  
Method: No information available.
- Eye irritation** : rabbit  
irritating  
Method: No information available.
- Sensitisation** : Maximisation Test guinea pig  
Did not cause sensitization on laboratory animals.  
Method: No information available.

**12. ECOLOGICAL INFORMATION**

No information on ecology is available.

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**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
- Packaging** :
- : Packaging that is not contaminated and has been cleaned can be recycled.

**14. TRANSPORT INFORMATION****Land transport ADR/RID**

- UN Number : 3264  
 Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM HYDROXIDE CHLORIDE)  
 Class : 8  
 Packaging group : III  
 Classification Code : C1  
 Hazard identification No : 80  
 ADR/RID-Labels : 8

**Air transport ICAO-TI/IATA-DGR**

- UN Number : 3264  
 Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM HYDROXIDE CHLORIDE)  
 Class : 8  
 Packing group : III  
 ICAO-Labels : 8  
 Packing instruction (Cargo Aircraft Only) : 820  
 Packing instruction (Passenger and Cargo Aircraft) : 818

**Sea transport IMDG**

- UN Number : 3264  
 Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM HYDROXIDE CHLORIDE)  
 Class : 8  
 Packing group : III  
 IMDG-Labels : 8  
 EmS Number : F-A, S-B  
 Marine pollutant : no

**15. REGULATORY INFORMATION****Labelling according to EC Directives****Directive 1999/45/EC**

Labelling required

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**Symbol(s)**

Xi Irritant

**Hazardous components which must be listed on the label:****contains :**

Aluminum chloride, basic

**R-phrases(s)**

R36/38 Irritating to eyes and skin.

**S-phrases(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.

**Further information**

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. The above details do not imply any guarantee concerning composition, properties or performance.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.