

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.09.2014

Version number 7

Revision: 18.09.2014

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

- **Product identifier**
- **Trade name:** Fällungsmittel
- **Article number:** 6572
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Water treatment
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Chemische Fabrik Dr. Stöcker GmbH & Co. KG  
Gewerbestrasse 19-25  
D-55546 Pfaffen-Schwabenheim  
+49 (0)6701 911780
- **Further information obtainable from:**  
Safety Department  
sicherheit@dr-stoecker.de
- **Emergency telephone number:**  
INTERNATIONAL: +49 (0) 6132 / 84463 (GBK Gefahrgut Büro GmbH, Ingelheim)


### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Eye Dam. 1 H318 Causes serious eye damage.

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Xi; Irritant  
R41: Risk of serious damage to eyes.
- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
  
GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Aluminiumchlorid, basisch (Aluminiumhydroxidchlorid)
- **Hazard statements**  
H318 Causes serious eye damage.
- **Precautionary statements**  
P280 Wear 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.  
P310 Immediately call a POISON CENTER or doctor/physician.

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 1327-41-9	Aluminiumchlorid, basisch (Aluminiumhydroxidchlorid)	10-25%
EINECS: 215-477-2	Xi R41	
	Eye Dam. 1, H318	

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Hydrogen chloride (HCl)
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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*Dispose contaminated material as waste according to item 13.*

· **Reference to other sections**

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protection equipment.*

*See Section 13 for disposal information.*

**7 Handling and storage**

· **Handling:**

· **Precautions for safe handling** *Keep receptacles tightly sealed.*

· **Information about fire - and explosion protection:** *No special measures required.*

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

*Provide acid-resistant floor.*

*Store only in the original receptacle.*

· **Information about storage in one common storage facility:**

*Do not store together with alkalis (caustic solutions).*

*Store away from oxidizing agents.*

· **Further information about storage conditions:**

*Protect from frost.*

*Protect from heat and direct sunlight.*

· **Storage class:** 8 B

· **Specific end use(s)** *No further relevant information available.*

**8 Exposure controls/personal protection**

· **Additional information about design of technical facilities:** *No further data; see item 7.*

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

· **Additional information:** *The lists valid during the making were used as basis.*

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

*Keep away from foodstuffs, beverages and feed.*

*Immediately remove all soiled and contaminated clothing*

*Wash hands before breaks and at the end of work.*

*Avoid contact with the eyes and skin.*

· **Respiratory protection:**

*Use suitable respiratory protective device in case of insufficient ventilation.*

*Short term filter device:*

· **Protection of hands:** *Acid resistant gloves*

· **Material of gloves**

*Fluorocarbon rubber (Viton)*

*Recommended thickness of the material:  $\geq 0,4$  mm*

· **Penetration time of glove material**

*For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).*

· **Eye protection:** *Tightly sealed goggles*

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· **Body protection:** Light weight protective clothing

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· **pH-value (10 g/l) at 20 °C:** < 3,1 (DIN 19268)· **Change in condition**

· <b>Melting point/Melting range:</b>	-15 °C
· <b>Boiling point/Boiling range:</b>	105 - 115 °C

· **Flash point:** Not determined.· **Flammability (solid, gaseous):** Product is not flammable.· **Ignition temperature:** Not determined.· **Decomposition temperature:** > 200 °C· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Oxidizing properties:** Not determined.· **Vapour pressure:** Not determined.· **Density at 20 °C:** 1,25 g/cm<sup>3</sup> (DIN 51757)· **Relative density:** Not determined.· **Vapour density:** Not determined.· **Solubility in / Miscibility with water:** Fully miscible.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

· **Other information:** No further relevant information available.

## 10 Stability and reactivity

· **Possibility of hazardous reactions:** Reacts with alkali and metals.· **Conditions to avoid:** No further relevant information available.· **Incompatible materials:** No further relevant information available.· **Hazardous decomposition products:** Hydrogen chloride (HCl)

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### 11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values relevant for classification:
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1327-41-9 Aluminiumchlorid, basisch (Aluminiumhydroxidchlorid)
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Oral	LD50	3450 mg/kg (rat)
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Dermal	LD50	> 2000 mg/kg (rat)
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- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- Repeated dose toxicity No further relevant information available.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - No further relevant information available.

### 12 Ecological information

- Toxicity

· Aquatic toxicity:
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1327-41-9 Aluminiumchlorid, basisch (Aluminiumhydroxidchlorid)
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LC50/96 h	27 mg/l (Gambusia affinis)
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- Persistence and degradability Easily eliminable from water.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

### 13 Disposal considerations

- Waste treatment methods

· European waste catalogue
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06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
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- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

### 14 Transport information

- UN-Number
- ADR, IMDG, IATA

UN3264

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- **UN proper shipping name**
- **ADR** 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Aluminiumchlorid, basisch (Aluminiumhydroxidchlorid))
- **IMDG, IATA** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Aluminiumchlorid, basisch (Aluminiumhydroxidchlorid))

· **Transport hazard class(es)**· **ADR**

- **Class** 8 (C1) Corrosive substances.
- **Label** 8

· **IMDG, IATA**

- **Class** 8 Corrosive substances.
- **Label** 8
- **Packing group**
- **ADR, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Corrosive substances.
- **Danger code (Kemler):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** Acids
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 5L
- **Transport category** 3
- **Tunnel restriction code** E
- **UN "Model Regulation":** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Aluminiumchlorid, basisch (Aluminiumhydroxidchlorid)), 8, III

### 15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H318 Causes serious eye damage.

R41 Risk of serious damage to eyes.

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- **Department issuing MSDS:** Department R&D

- **Contact:** Department R&D

- **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

- **\* Data compared to the previous version altered.**

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