

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:** *Flockungsmittel*
- **Article number:** 6573
- **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.

- **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.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
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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:**

· Form:	Fluid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.

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

· Melting point/Melting range:	-15 °C
· Boiling point/Boiling range:	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:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Oxidizing properties:** Not determined.· **Vapour pressure:** Not determined.· **Density at 20 °C:** 1,25 g/cm³ (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:**

· Dynamic:	Not determined.
· Kinematic:	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:

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:

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

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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