

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.06.2019

Version 19

Revision: 20.02.2019

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

**- 1.1 Product identifier**

- Trade name: **Flocculant AR 8407**

- Article number: 05504804070

**- 1.2 Relevant identified uses of the substance or mixture and uses advised against**

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

- **Process category**

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

- **Environmental release category**

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

- **Application of the substance / the mixture**

Industrial use

Process water cleaner

**- 1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Rösler Oberflächentechnik GmbH

Hausen 1

D-96231 Bad Staffelstein

www.rosler.com

Tel.: +49/9533/924-0

Fax : +49/9533/924-300

info@rosler.com

- **Further information obtainable from:** Department of Product Control / E-Mail: sds@rosler.com

- **1.4 Emergency telephone number:**

Emergency number in case of toxication: University Hospital of Mainz +49 (0) 6131 - 19240

(information in German and English language)

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**SECTION 2: Hazards identification**

**- 2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008** Void

**- 2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

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

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**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterization: Mixture**
- **Description:**  
This product contains no substances hazardous to health or environment or substances with community workplace exposure limits greater than or equal the cut-off values according to Regulation (EC) No 1272/2008.
- **Dangerous components:** Void

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Rinse out mouth with plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
  - **Information about fire - and explosion protection:** No special measures required.
  
  - **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**  
Store at +5°C to +30°C  
Durability: at least 1 year
  - **7.3 Specific end use(s)** No further relevant information available.
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**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:**  
No further data; see item 7.
  
- **8.1 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.
  
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**  
Not necessary in case of intended use.  
Use suitable respiratory protective device if vapors occur or aerosol is formed.  
Filter A/P2
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
To avoid skin problems reduce the wearing of gloves to the required minimum.  
After use of gloves apply skin-cleaning agents and skin cosmetics.

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**- Material of gloves**

e.g.

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**- Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**- Eye protection:** Goggles recommended during refilling

**- Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

**Form:** Fluid

**Colour:** Yellow

**- Odour:** Characteristic

**- pH-value (at 20°C):** 3.8 ( ± 1.0)

**- pH-value (0,5%, at 20°C):** Not determined

**- Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** 100 °C

**- Flash point:** Not applicable.

**- Flammability (solid, gas):** Not applicable.

**- Decomposition temperature:** Not determined.

**- Auto-ignition temperature:** Product is not selfigniting.

**- Explosive properties:** Product does not present an explosion hazard.

**- Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**- Vapour pressure at 20 °C:** 23 hPa

**- Density (at 20°C):** 1.00 ( ± 0.01) g/cm<sup>3</sup>

**- Relative density** Not determined.

**- Vapour density** Not determined.

**- Evaporation rate** Not determined.

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- **Solubility in / Miscibility with water:** Fully miscible.
  - **Partition coefficient: n-octanol/water:** Not determined.
  - **Viscosity:**
    - Kinematic:** Not determined.
    - Dynamic (at 22°C):** 72 - 133 mPa.s
  - **9.2 Other information** No further relevant information available.
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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No dangerous reactions in case of intended use.
  - **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
  - **10.3 Possibility of hazardous reactions** No dangerous reactions in case of intended use.
  - **10.4 Conditions to avoid** No further relevant information available.
  - **10.5 Incompatible materials:** No further relevant information available.
  - **10.6 Hazardous decomposition products:** None in case of intended use and storage.
- 

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - **Acute toxicity** No further relevant information available.
  - **Primary irritant effect:**
  - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
  - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Regarding all rateable information this product is not cancerogenic, mutagenic or toxic for reproduction.
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.
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**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Avoid transfer into the environment.
- **Results of PBT and vPvB assessment**  
The product contains no substance which is considered to be persistent, bioaccumulative or toxic (PBT) or as very persistent and very bioaccumulative (vPvB).
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Smaller quantities can be disposed of with household waste.

- <b>European waste catalogue</b>	
16 03 06	organic wastes other than those mentioned in 16 03 05

- **Uncleaned packaging:**
- **Recommendation:** Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** Void
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

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**SECTION 15: Regulatory information**

**- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

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

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**SECTION 16: Other information**

This information is based on our present knowledge and refers to the product in its conditions as delivered. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Existing laws and regulations have to be observed by the receiver on its own responsibility.

**- Department issuing SDS:**

Rösler Oberflächentechnik GmbH  
Department of Product Control

**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

**- Sources**

For the preparation of this MSDS information from our suppliers, information on chemicals from the European Chemicals Agency (ECHA) and data from the GESTIS database were used.

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