

## Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2011

Revision: 16.02.2011

### 1 Identification of substance

- **Product details**
- **Trade name** Clinker Cleaner AC
- **Article number:** 0672
- **Application of the substance / the preparation** Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**  
Remmers Baustofftechnik GmbH  
Postfach 1255  
D-49624 Lönningen / Germany  
Tel.: 05432/83-0  
Fax: 05432/3985
- **Informing department:**  
Product Safety department: Tel.: +49 (0)5432/83-138/-538  
E-Mail: sales@remmers.co.uk
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U.K.: Tel.: +44 (0) 845 373 0103  
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after working hours: Tel.: +49 (0)171/6428-297

### 2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**  
R 36/38 Irritating to eyes and skin.  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system**  
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** organic sulfonic acids

- **Dangerous components:**

CAS: 5329-14-6	sulphamidic acid	Xi; R 36/38-52/53	80-100%
EINECS: 226-218-8			

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

### 4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** No special requirements.

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- **After skin contact**  
Wash immediately 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 doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Seek medical treatment.
- **Information for doctor**
- **The following symptoms may occur:**  
In case of prolonged/repeated exposure or in high concentrations:  
Irritating effect on skin and eyes.  
Irritating effect on respiratory organs.  
Coughing  
nausea  
Respiratory distressn (dyspnoea)
- **Treatment** Treat chemical burns the same as burns caused by heat.

## 5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Special hazards caused by the material, its products of combustion or flue gases:**  
May be released in case of fire  
Sulphur dioxide (SO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Ammonia
- **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear chemical protective clothing.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or water bodies.  
Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**  
Collect mechanically.  
Dilute in water, neutralize (with lime, soda lye), wash away with plenty of water.
- **Additional information:** See Section 13 for information on disposal.

## 7 Handling and storage

- **Handling**
- **Information for safe handling:** Avoid the formation of dust.
- **Information about protection against explosions and fires:** No special requirements.
- **Storage**
- **Requirements to be met by storerooms and containers:** Do not use light alloy containers.
- **Information on storage in a common storage facility:** Do not store together with alkalis (lyes).
- **Further information about storage conditions:**  
Store cool and dry in tightly closed containers.

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Protect from humidity and keep away from water.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Immediately remove soiled, saturated clothing.  
Keep away from food, beverages and animal feed.  
Do not eat, drink or smoke while working.  
Use skin protection cream for preventive skin protection.  
Avoid contact with eyes and skin.  
Wash hands before pauses and after work.  
Do not inhale dust / smoke / mist.
- **Respiratory equipment:**  
Respiratory protection recommended.  
Filter P2.
- **Protection of hands:** Protective gloves.
- **Material of gloves**  
Nitrile rubber, NBR  
Chloroprene rubber, CR
- **Penetration time of glove material**  
Break through time: max. 240 min (DIN EN 374).  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

### · General Information

<b>Form:</b>	Crystalline powder
<b>Colour:</b>	White
<b>Odour:</b>	Odourless

### · Change in condition

<b>Melting point/Melting range:</b>	ca. 190°C amido sulfonic acid
<b>Boiling point/Boiling range:</b>	Not determined

<b>Flash point:</b>	Not applicable
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<b>Ignition temperature:</b>	not applicable
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<b>Decomposition temperature:</b>	> 200°C
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<b>Self-inflammability:</b>	Product is not self-igniting.
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<b>Danger of explosion:</b>	Product is not explosive.
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<b>Density at 20°C</b>	ca. 2.1 g/cm <sup>3</sup>
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- |  |                     |
|--|---------------------|
| · <b>Solubility in / Miscibility with Water:</b> | Soluble             |
| · <b>pH-value at 20°C:</b>                       | 0.8<br>10% solution |

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
No decomposition if handled and stored according to specifications.
- **Materials to be avoided:**  
Strong oxidising agents  
lyes  
nitrites  
metals
- **Dangerous reactions**  
Exothermic reaction with alkalis. Reacts with nitrites developing nitrogen.  
Reacts with strong oxidising agents  
Forms hydrogen in aqueous solution with metals
- **Dangerous decomposition products:**  
May be released in fire:  
Sulphur dioxide  
Nitrogen oxides (NOx)  
Nitrous vitriol gases  
Ammonia

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**5329-14-6 sulphamidic acid**

Oral LD50 3160 mg/kg (Ratte)

- **Primary irritant effect:**
- **on the skin:** Irritates skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitisation:** No sensitising effect known.

## 12 Ecological information:

- **Ecotoxicological effects:**
- **Remark:**  
If the product is not neutralised, pay attention to the pH value: toxic effect for fish and bacteria commences at a pH value below 6 and increases as the pH value decreases. After neutralisation, the less harmful effects of the amidosulphuric acid apply for fish and bacteria.
- **Remark:**  
When leading acidic or alkaline products into sewage facilities, make sure that the discharged water does not exceed or fall below a pH range of 6 - 10 since shifts in pH value can cause disturbances in sewers and biological purification facilities. The local guidelines for discharge apply.
- **General notes:**  
Water hazard class 1 : slightly hazardous to water.

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Do not allow to reach ground water or bodies of water. May not be led undiluted into sewer systems.

## 13 Notes on disposal:

- **Product:**

- **Recommendation**

After neutralising with lime (calcium carbonate) the product can be discharged into the sewer system. Local regulations must be observed.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

- **European waste catalogue**

20 01 14	acids
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

## 14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 8 (C10) Corrosive substances.

- **Kemler Number:** 80

- **UN-Number:** 1759

- **Packaging group:** III

- **Danger sign:** 8

- **Designation of goods:** 1759 CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID)

- **Limited quantities (LQ)** LQ24

- **Tunnel restriction code** E

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 8

- **UN Number:** 1759

- **Label** 8

- **Packaging group:** III

- **EMS Number:** F-A,S-B

- **Marine pollutant:** -

- **Correct technical name:** CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8

- **UN/ID Number:** 1759

- **Label** 8

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- **Packaging group:** III
- **Correct technical name:** CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID)

## 15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**



Xi Irritant

- **Risk phrases:**

36/38 Irritating to eyes and skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**

2 Keep out of the reach of children.

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

28 After contact with skin, wash immediately with plenty of soap and water.

37/39 Wear suitable gloves and eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

- **National regulations**

- **Water hazard class:**

Water hazard class 1: slightly hazardous to water.  
according to appendix 4 VwVwS

- **Other regulations, limitations and prohibition ordinances**

In a 10% solution the product has a pH value of approximately 0,8.

Corrosive properties are set free when worked with water; therefore experience is expected of the user and our notes on working are to be observed.

## 16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.  
Delivery specifications are found in the respective Technical Information Sheets.

- **Relevant R-phrases**

36/38 Irritating to eyes and skin.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing data specification sheet:** Product Safety department