

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

Printing date 28.10.2016

Version number 3

Revision: 09.06.2015

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

* **1.1 Product identifier**

* **Trade name** **Clinker Cleaner AC**

* **Article number:** 0672

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

No further relevant information available.

* **Application of the substance / the mixture** Cleaning agent/ Cleaner

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

* **Manufacturer/Supplier:**

Remmers GmbH
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D-49624 Lönningen / Germany
Tel.: +49(0)5432/83-0
Fax: +49(0)5432/3985

Remmers (UK) Limited
Unit B1 The Fleming Centre
West Sussex RH10 9NN
fon +44 (0) 1293 594 010
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* **Informing department:**

Product Safety department: Tel.: Steve Dunn Tel.: +44 (0) 1293 594 010
E-Mail: sales@remmers.co.uk

* **1.4 Emergency telephone number:**

during working hours:

U.K.: Tel.: +44 (0) 1293 594 010

sales@remmers.co.uk

Head Office Germany: Tel.: +49 (0)5432 83 187

info@remmers.de

after working hours: Tel.: +49 (0)171 21 34 091

24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300

outside USA and Canada: 001-703-527-3887

* **SECTION 2: Hazards identification**

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

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

* **2.2 Label elements**

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

The product is classified and labelled according to the CLP regulation.

* **Hazard pictograms**



GHS07

* **Signal word** Warning

* **Hazard statements**

H315 Causes skin irritation.

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Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 3

Revision: 09.06.2015

Trade name **Clinker Cleaner AC**

(Contd. of page 1)

* **Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P273 Avoid release to the environment.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

* **2.3 Other hazards**

* **Results of PBT and vPvB assessment**

* **PBT:** Not applicable.* **vPvB:** Not applicable.

* SECTION 3: Composition/information on ingredients

* **3.2 Chemical characterisation: Mixtures**

* **Description:** Mixture of the substances listed below with harmless additions.

* **Dangerous components:**

CAS: 5329-14-6	sulphamidic acid	80-100%
EINECS: 226-218-8	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3,	
Index number: 016-026-00-0	H412	
Reg.nr.: 01-2119846728-23-XXXX		

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

* SECTION 4: First aid measures

* **4.1 Description of first aid measures**

* **After inhalation** In case of unconsciousness bring patient into stable side position for transport.

* **After skin contact**

If skin irritation continues, consult a doctor.

Wash immediately with water and soap and rinse thoroughly.

* **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

* **After swallowing**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

* **4.2 Most important symptoms and effects, both acute and delayed**

In case of prolonged/repeated exposure or in high concentrations:

Irritating effect on skin and eyes.

Irritating effect on respiratory organs.

* **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

* SECTION 5: Firefighting measures

* **5.1 Extinguishing media**

* **Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

* **5.2 Special hazards arising from the substance or mixture**

May be released in case of fire

Sulphur dioxide (SO₂)Nitrogen oxides (NO_x)

* **5.3 Advice for firefighters**

* **Protective equipment:**

Wear self-contained breathing apparatus.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 3

Revision: 09.06.2015

Trade name **Clinker Cleaner AC**

(Contd. of page 2)

Wear full protective suit.

* SECTION 6: Accidental release measures

* 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

* 6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Do not allow product to reach sewage system or water bodies.

Inform responsible authorities in case product reaches bodies of water or sewage system.

* 6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable containers.

* 6.4 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 information on disposal.

* SECTION 7: Handling and storage

* 7.1 Precautions for safe handling No special precautions necessary if used correctly.

* Information about protection against explosions and fires: No special requirements.

* 7.2 Conditions for safe storage, including any incompatibilities

* Storage

* Requirements to be met by storerooms and containers: No special requirements.

* Further information about storage conditions:

Protect from humidity and keep away from water.

Keep container tightly closed.

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

* SECTION 8: Exposure controls/personal protection

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

* 8.1 Control parameters

* 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.

* 8.2 Exposure controls

* Personal protective equipment

* General protective and hygienic measures

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

* Respiratory equipment: not required.

* 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

* Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 3

Revision: 09.06.2015

Trade name **Clinker Cleaner AC**

(Contd. of page 3)

*** Penetration time of glove material**

Break through time: max. 240 min (DIN EN 374).

The exact break through 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.

* SECTION 9: Physical and chemical properties

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

*** General Information**

*** Appearance:**

Form: Crystalline powder

Colour: White

* Odour: Odourless

* Odour threshold: Not determined.

* pH-value at 20 °C: 0.8
10% solution

*** Change in condition**

Melting point/Melting range: 205 °C (Zersetzung)

Boiling point/Boiling range: Not determined

* Flash point: Not applicable

* Inflammability (solid, gaseous) Not determined.

* Ignition temperature: not applicable

* Decomposition temperature: > 200 °C

* Self-inflammability: Product is not self-igniting.

* Danger of explosion: Product is not explosive.

*** Explosive Limits:**

Lower: Not determined.

Upper: Not determined.

* Vapour pressure: Not applicable.

* Density at 20 °C 2.122 g/cm³

* Bulk apparent density at 20 °C 600 kg/m³

* Relative density Not determined.

* Vapour density Not applicable.

* Evaporation rate Not applicable.

*** Solubility in / Miscibility with**

Water at 20 °C: 150 g/l

* Distribution coefficient (n-octanol/water): Not determined.

*** Viscosity:**

dynamic: Not applicable.

kinematic: Not applicable.

Organic solvents: 0.0 %

Solid content: 100.0 %

* 9.2 Other information No further relevant information available.

* SECTION 10: Stability and reactivity

* 10.1 Reactivity No further relevant information available.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 3

Revision: 09.06.2015

Trade name **Clinker Cleaner AC**

(Contd. of page 4)

* **10.2 Chemical stability**

* **Thermal decomposition / conditions to be avoided:**

No decomposition if handled and stored according to specifications.

* **10.3 Possibility of hazardous reactions**

Reacts with strong oxidising agents

Forms hydrogen in aqueous solution with metals

* **10.4 Conditions to avoid** No further relevant information available.

* **10.5 Incompatible materials:** No further relevant information available.

* **10.6 Hazardous decomposition products:**

May be released in fire:

Sulphur dioxide

Nitrogen oxides (NO_x)

Nitrous vitriol gases

Ammonia

* SECTION 11: Toxicological information

* **11.1 Information on toxicological effects**

* **Acute toxicity:** Based on available data, the classification criteria are not met.

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

Oral LD50 3160 mg/kg (rat)

CAS: 5329-14-6 sulphamidic acid

Oral LD50 3160 mg/kg (rat)

* **Primary irritant effect:**

* **Skin corrosion/irritation**

Causes skin irritation.

* **Serious eye damage/irritation**

Causes serious eye irritation.

* **Sensitisation:** Based on available data, the classification criteria are not met.

* **CMR effects (carcinogenicity, mutagenicity and toxicity 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.

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.

* **12.4 Mobility in soil** No further relevant information available.

* **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.

Harmful to fish

* **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.

* **Additional ecological information:**

* **General notes:**

Do not allow product to reach ground water, bodies of water or sewage system.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 3

Revision: 09.06.2015

Trade name **Clinker Cleaner AC**

(Contd. of page 5)

Harmful to aquatic organisms

Do not allow undiluted or larger quantities of the product to reach ground water, bodies of water or sewage system.

* **12.5 Results of PBT and vPvB assessment*** **PBT:** Not applicable.* **vPvB:** Not applicable.* **12.6 Other adverse effects** No further relevant information available.* **SECTION 13: Disposal considerations*** **13.1 Waste treatment methods*** **Recommendation**

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.

Do not dispose of together with household garbage. Do not allow product to reach sewage system.

* **European waste catalogue**

20 01 14* acids

* **Uncleaned packaging:*** **Recommendation:** Disposal must be made according to official regulations.* **SECTION 14: Transport information*** **14.1 UN-Number*** **ADR, IMDG, IATA**

UN1759

* **14.2 UN proper shipping name*** **ADR**

1759 CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID)

* **IMDG*** **IATA**

CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID)

Corrosive solids, n.o.s. (Sulfamic acid)

* **14.3 Transport hazard class(es)*** **ADR*** **Class**

8 (C10) Corrosive substances.

* **Label**

8

* **IMDG, IATA*** **Class**

8 Corrosive substances.

* **Label**

8

* **14.4 Packing group*** **ADR, IMDG, IATA**

III

* **14.5 Environmental hazards:*** **Marine pollutant:**

-

No

* **14.6 Special precautions for user**

Warning: Corrosive substances.

* **Kemler Number:**

80

* **EMS Number:**

F-A,S-B

* **Segregation groups**

Acids

* **Stowage Category**

A

* **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2016

Version number 3

Revision: 09.06.2015

Trade name **Clinker Cleaner AC**

(Contd. of page 6)

*** Transport/Additional information:**

* ADR	
* Limited quantities (LQ)	5 kg
* Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
* Transport category	3
* Tunnel restriction code	E

* IMDG	
* Limited quantities (LQ)	5 kg
* Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
* UN "Model Regulation":	UN1759, CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID), 8, III

*** SECTION 15: Regulatory information***** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***** Directive 2012/18/EU***** Named dangerous substances - ANNEX I** None of the ingredients is listed.*** National regulations***** Other regulations, limitations and prohibition ordinances**

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.

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

*** Department issuing data specification sheet:** Product Safety department / EHS*** 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3