

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 19.02.2008

1 Identification of substance

- **Product details**
- **Trade name** Facade Cleaning Paste
- **Article number:** 0666
- **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
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
Far East: Tel.: +65(0) 67410277
Head Office Germany: Tel.: +49 (0)5432 83 185
after working hours: Tel.: +49 (0)171/6428-297

2 Hazards identification

- **Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**
R 22 Harmful if swallowed.
R 34 Causes burns.
- **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:** thixotropic, aqueous solution of ammonium hydrogenfluoride

- **Dangerous components:**

| | | | |
|-------------------|-----------------------------|---------------|--------|
| CAS: 1341-49-7 | ammonium hydrogendifluoride | T, C; R 25-34 | 5-<10% |
| EINECS: 215-676-4 | | | |

- **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** Supply fresh air.

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- **After skin contact**
Wash affected areas of skin immediately with soap and water, then apply skin cream. Cover burned areas of the body with sterile bandages; see 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.
Do not induce vomiting; call for medical help immediately.

5 Fire fighting measures

- **Suitable extinguishing agents**
Water mist
Foam
Carbon dioxide
Fire-extinguishing powder
- **Special hazards caused by the material, its products of combustion or flue gases:**
May be released in case of fire
Hydrogen fluoride (HF)
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.

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:** Neutralise with lime water and collect mechanically.
- **Additional information:** See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Avoid contact with skin and eyes.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information on storage in a common storage facility:** none
- **Further information about storage conditions:**
Store cool and dry in tightly closed containers.
Protect from frost.

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.

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- **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.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.
Be sure to clean skin thoroughly before pauses and after work.
Do not inhale gases / vapours / aerosols.
- **Respiratory equipment:** not required.
- **Protection of hands:** Impervious gloves
- **Material of gloves**
Chloroprene rubber, CR
Butyl rubber, BR
- **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

| | |
|----------------|-----------|
| Form: | Pasty |
| Colour: | Opaque |
| Odour: | Odourless |

· Change in condition

| | |
|-------------------------------------|----------------|
| Melting point/Melting range: | Not determined |
| Boiling point/Boiling range: | 100°C |

· **Flash point:** Not applicable

· **Ignition temperature:** not applicable

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

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C** ca. 1.04 g/cm³

· Solubility in / Miscibility with

Water: Fully miscible

· **pH-value at 20°C:** 5.0

· Viscosity:

dynamic at 23°C: ca. 1200 mPas

· Solvent content:

Organic solvents: 0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

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- **Materials to be avoided:**
strong acids
metals
- **Dangerous reactions**
Corrosive effect on normally used metals. Glass and silicate based working materials are attacked.
Reacts with strong acids
- **Dangerous decomposition products:** Hydrogen fluoride

11 Toxicological information

- **Acute toxicity:**

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

1341-49-7 ammonium hydrogendifluoride

| | | |
|------|------|-------------------|
| Oral | LD50 | 130 mg/kg (Ratte) |
|------|------|-------------------|

- **Primary irritant effect:**

- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitisation:** No sensitising effect known.
- **Other information (on experimental toxicology):**
Burns eyes, mucous membranes and skin. Long-term effects may cause damage to your health.
Hazardous to health if swallowed.

12 Ecological information:

- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
- **Type of test Effective concentration Method Assessment**
Data for ammonium bifluoride:
Toxicity for fish:
zebra fish LC-0: 237 mg/l/96 h OECD, value from literature Toxicity to bacteria:
activated sludge EC-50: 2394 mg/l ISO 8192, value from literature
- **Remark:** Neutralise with lime (calcium carbonate) before discharging into sewage treatment plant.
- **General notes:**
Water hazard class 1 : slightly hazardous to water.
Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

- **Product:**
- **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.

- **European waste catalogue**

| | |
|----------|---|
| 06 00 00 | WASTES FROM INORGANIC CHEMICAL PROCESSES |
| 06 03 00 | wastes from the MFSU of salts and their solutions and metallic oxides |
| 06 03 14 | solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 |

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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14 Transport information

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



- **ADR/RID-GGVS/E Class:** 8 (C9) Corrosive substances.
- **Kemler Number:** 80
- **UN-Number:** 1760
- **Packaging group:** III
- **Danger sign:** 8
- **Designation of goods:** 1760 CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROGENDIFLUORIDE)
- **Limited quantities (LQ)** LQ7
- **Tunnel restriction code** E
- **Remarks:** TREM-Card No. 83

· Maritime transport IMDG/GGVSea:



- **IMDG/GGVSea Class:** 8
- **UN Number:** 1760
- **Label** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** -
- **Correct technical name:** CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROGENDIFLUORIDE)

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1760
- **Label** 8
- **Packaging group:** III
- **Correct technical name:** CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROGENDIFLUORIDE)

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:



C Corrosive

· Hazard-determining components of labelling:

ammonium hydrogendifluoride

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· Risk phrases:

- 22 Harmful if swallowed.
- 34 Causes burns.

· 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.
- 37/39 Wear suitable gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· National regulations**· Water hazard class:**

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

· Other regulations, limitations and prohibition ordinances**· Professional Association (BG) Code of Practice:**

M 004 "Irritating substances/corrosive substances"
ZH 1/161 "Code of Practice: Hydrogen fluoride, hydrofluoric acid and inorganic fluorides (M 005)"

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

- 25 Toxic if swallowed.
- 34 Causes burns.

· Department issuing data specification sheet: Product Safety department