

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 16.12.2005

Reviewed on 16.12.2005

### 1 Identification of the substance/preparation and of the company/undertaking

- Product details
- Trade name: **Concrete Film Remover**
- Article number: 10810, 10811
- Application of the substance / the preparation Cleaning agent/ Cleaner
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg  
Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de
- Further information obtainable from: Laboratory

### 2 Composition/information on ingredients

- Chemical characterization
- Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

CAS: 7664-38-2	phosphoric acid	12.5-25%
EINECS: 231-633-2	C; R 34	
EU Number: 015-011-00-6		
CAS: 7647-01-0	hydrogen chloride	12.5-25%
EINECS: 231-595-7	C; R 34-37	
EU Number: 017-002-01-X		
	Aliphatic alcohols, C13-C15, largely linear, ethoxylated	1-5%
	Xn, N; R 22-41-50	
CAS: 110-65-6	but-2-yne-1,4-diol	<1%
EINECS: 203-788-6	T; R 21-23/25-34-43-48/22	
EU Number: 603-076-00-9		
- Additional information: For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

- Hazard description: C Corrosive
- 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.

R 34 Causes burns.

R 37 Irritating to respiratory system.
- Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 4 First-aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- Special hazards caused by the substance, its products of combustion or resulting gases:

Hydrogen chloride (HCl)

- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

- Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.  
Particular danger of slipping on leaked/spilled product.

- Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

### 7 Handling and storage

- Handling:

- Information for safe handling:

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

- Information about fire - and explosion protection:

No special measures required.

- Storage:

- Requirements to be met by storerooms and receptacles:

No special requirements.

- Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

- Further information about storage conditions:

Protect from heat and direct sunlight.

Keep container tightly sealed.

Protect from frost.

### \* 8 Exposure controls/personal protection

- Additional information about design of technical facilities:

No further data; see item 7.

- Ingredients with limit values that require monitoring at the workplace:

#### **7664-38-2 phosphoric acid**

WEL Short-term value: 2 mg/m<sup>3</sup>

Long-term value: 1 mg/m<sup>3</sup>

- Additional information:

The lists valid during the making were used as basis.

- 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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- Protection of hands:

Protective gloves

- Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Chloroprene rubber, CR

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- Penetration time of glove material PVC gloves  
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.  
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 goggles
- Body protection: Protective work clothing

### \* 9 Physical and chemical properties

#### · General Information

Form: Fluid  
 Colour: Yellow-brown  
 Odour: Pungent

#### · Change in condition

Melting point/Melting range: Undetermined.  
Boiling point/Boiling range: Undetermined.

#### · Flash point:

Not applicable.

#### · Self-igniting:

Product is not selfigniting.

#### · Danger of explosion:

Product does not present an explosion hazard.

#### · Vapour pressure at 20°C:

20.0 hPa

#### · Density at 20°C:

1.150 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with water:

Fully miscible.

#### · pH-value at 20°C:

&lt; 1

### 10 Stability and reactivity

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

#### · Dangerous reactions

Reacts with strong oxidizing agents.  
 Reacts with metals forming hydrogen.

#### · Dangerous decomposition products:

Hydrogen chloride (HCl)

### 11 Toxicological information

#### · Acute toxicity:

#### · Primary irritant effect:

#### · on the skin:

Caustic effect on skin and mucous membranes.

#### · on the eye:

Strong caustic effect.

#### · Sensitization:

No sensitizing effects known.

#### · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

#### · General notes:

Do not allow product to reach ground water, water course or sewage system.  
 Must not reach sewage water or drainage ditch undiluted or unneutralized.

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Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

### \* 13 Disposal considerations

- Product:
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- European waste catalogue
- 20 01 29 detergents containing dangerous substances
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### \* 14 Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class: 8 (C1) Corrosive substances.
- Danger code (Kemler): 80
- UN-Number: 3264
- Packaging group: II
- Hazard label 8
- Description of goods: 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)
- Maritime transport IMDG:
- IMDG Class: 8
- UN Number: 3264
- Label 8
- Packaging group: II
- EMS Number: F-A,S-B
- Marine pollutant: No
- Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 8
- UN/ID Number: 3264
- Label 8
- Packaging group: II
- Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)

### \* 15 Regulatory information

- Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product: C Corrosive
- Hazard-determining components of labelling: hydrogen chloride  
phosphoric acid
- Risk phrases: 34 Causes burns.  
37 Irritating to respiratory system.
- Safety phrases: 1/2 Keep locked up and out of the reach of children.  
23 Do not breathe fumes.

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- 24/25 Avoid contact with skin and eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
36/37/39 Wear suitable protective clothing, 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:· Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

### \* 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 R-phrases

- 21 Harmful in contact with skin.  
22 Harmful if swallowed.  
23/25 Toxic by inhalation and if swallowed.  
34 Causes burns.  
37 Irritating to respiratory system.  
41 Risk of serious damage to eyes.  
43 May cause sensitisation by skin contact.  
48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
50 Very toxic to aquatic organisms.

· Department issuing MSDS:

Laboratory

· Contact:

Dieter Zimmermann

· \* Data compared to the previous version altered.