

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 11.03.2022

Version number 5 (replaces version 4)

Revision: 11.03.2022

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

#### 1.1 Product identifier

- Trade name: **ACID CLEANER**
- Article number: 11985, 11986
- UFI: 3T26-50K0-U00K-FAW0

#### 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: AKEMI chemisch technische Spezialfabrik GmbH      Tel. +49(0)911-642960  
Lechstrasse 28      Fax. +49(0)911-644456  
D 90451 Nürnberg      e-mail info@akemi.de

- Further information obtainable from: Laboratory

#### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
- Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

#### 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

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



GHS05 GHS07

- Signal word Danger

- Hazard-determining components of labelling:

methanesulphonic acid  
Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine  
Alcohols, C13-C15 branched and linear, ethoxylated

- Hazard statements

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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 Mixtures**

- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

75-75-2	methanesulphonic acid Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335	12.5-25%
157627-86-6	Alcohols, C13-C15 branched and linear, ethoxylated Eye Dam. 1, H318 Acute Tox. 4, H302 Aquatic Chronic 3, H412	1-5%
	Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine Eye Dam. 1, H318 Skin Irrit. 2, H315; Skin Sens. 1B, H317	1-5%

- Regulation (EC) No 648/2004 on detergents / Labelling for contents

non-ionic surfactants	<5%
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- 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**

- General information: Immediately remove any clothing soiled by the product.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

- 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.

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

Cramp  
Gastric or intestinal disorders  
Nausea

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

If swallowed, gastric irrigation with added, activated carbon.

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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**

Hydrogen chloride (HCl)

**· 5.3 Advice for firefighters****· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

**· 6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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

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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**· 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 disposal information.

**SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

**· 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:**

Protect from frost.

Keep container tightly sealed.

**· Storage class:**

8 B

**· 7.3 Specific end use(s)**

No further relevant information available.

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**SECTION 8: Exposure controls/personal protection****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.

· DNELs**75-75-2 methanesulphonic acid**

Oral	DNEL (Langzeit-wiederholt)	8.33 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	19.44 mg/kg bw/day (ARB)
		8.33 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	1.44 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	0.7-6.76 mg/m <sup>3</sup> Air (ARB)
		1.44-1.73 mg/m <sup>3</sup> Air (BEV)

**Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine**

Oral	DNEL (Langzeit-wiederholt)	5 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	10 mg/kg bw/day (ARB)
		5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	35.26 mg/m <sup>3</sup> Air (ARB)
		8.7 mg/m <sup>3</sup> Air (BEV)

· PNECs**75-75-2 methanesulphonic acid**

PNEC (wässrig)	100 mg/l (KA)
	0.0012 mg/l (MW)
	0.012 mg/l (SW)
	0.12 mg/l (WAS)
PNEC (fest)	0.00183 mg/kg Trockengew (BO)
	0.00444 mg/kg Trockengew (MWS)
	0.0251 mg/kg Trockengew (SWS)

**Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine**

PNEC (wässrig)	100 mg/l (KA)
	0.01 mg/l (MW)
	0.1 mg/l (SW)
	1 mg/l (WAS)
PNEC (fest)	0.909 mg/kg Trockengew (BO)
	0.485 mg/kg Trockengew (MWS)
	4.85 mg/kg Trockengew (SWS)

· Additional information:

The lists valid during the making were used as basis.

**8.2 Exposure controls**

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.  
 Use skin protection cream for skin protection.  
 Clean skin thoroughly immediately after handling the product.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.

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· Respiratory protection:

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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.

Filter B

· Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).



## Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Chloroprene rubber, CR

Neoprene 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.

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 materialValue for the permeation: Level  $\leq 6$ , 480 min

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

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, Art\_No. 730, 731, 732, 733)

Fluorocarbon rubber (Viton)

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- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· As protection from splashes gloves made of the following materials are suitable:</li> <li>· Not suitable are gloves made of the following materials:</li> <li>· Eye/face protection</li> <li>· Body protection:</li> </ul> | <p>Vitoject (KCL, Art_No. 890)<br/>Chloroprene rubber, CR<br/>Camapren (KCL, Art_No. 720, 722, 726)<br/>Neoprene gloves<br/>Nitopren (KCL, Art_No. 717)</p> <p>Nitrile rubber, NBR<br/>Camatril (KCL, 730, 731, 732, 733)<br/>Chloroprene rubber, CR<br/>Camapren (KCL, Art_No. 720, 722, 726)</p> <p>Leather gloves<br/>Strong material gloves</p> <p> Tightly sealed goggles</p> <p>Protective work clothing</p> |
|---|---|

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- General Information
- Colour: Yellowish
- Odour: Characteristic
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range 100 °C
- Flash point: Not applicable.
- pH at 20 °C <1
- Viscosity:
- Kinematic viscosity at 20 °C 11 s (DIN 53211/4)
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Vapour pressure at 20 °C: 23 hPa
- Density and/or relative density
- Density at 20 °C: 1.11 g/cm<sup>3</sup>

### 9.2 Other information

- Appearance:
- Form: Fluid
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- Solvent content:
- Water: 72.0 %
- Solids content: 37.0 %

### Information with regard to physical hazard classes

- Explosives Void
- Flammable gases Void
- Aerosols Void

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· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

**SECTION 10: Stability and reactivity**

· <b>10.1 Reactivity</b>	No further relevant information available.
· <b>10.2 Chemical stability</b>	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used and stored according to specifications.
· <b>10.3 Possibility of hazardous reactions</b>	Reacts with strong oxidising agents. Reacts with metals forming hydrogen.
· <b>10.4 Conditions to avoid</b>	No further relevant information available.
· <b>10.5 Incompatible materials:</b>	No further relevant information available.

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- **10.6 Hazardous decomposition products:** Hydrogen chloride (HCl)

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral	LD50	>2,379-2,563 mg/kg (rat)
Dermal	LD50	4,054-8,108 mg/kg

**75-75-2 methanesulphonic acid**

Oral	LD50	649 mg/kg (rat)
Dermal	LD50	1,000-2,000 mg/kg (rabbit)
Inhalative	LC50	1.3 mg/l (rat)

**157627-86-6 Alcohols, C13-C15 branched and linear, ethoxylated**

Oral	LD50	>500-2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
	LC50/48h	1-10 mg/l (Oncorhynchus mykiss)

**Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

- Skin corrosion/irritation Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- 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.

**11.2 Information on other hazards**

- Endocrine disrupting properties
- None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity**

- Aquatic toxicity:

**75-75-2 methanesulphonic acid**

EC50	560 mg/l (pseudomonas putida)
EC50/48h	70 mg/l (daphnia magna) (OECD 202)
EC20/0.5h	>1,000 mg/l (BES)
LC 0	>1.88 mg/l (mouse)
EC50/30min	>1,000 mg/l (BES)
EC10	>1,000 mg/l (BES)
EC50/72h	12-24 mg/l (Selenastrum capricornutum) (OECD 201)
LC50/96h	73 mg/l (Oncorhynchus mykiss) (OECD 203)

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**157627-86-6 Alcohols, C13-C15 branched and linear, ethoxylated**

EC50/48h	1-10 mg/l (daphnia magna)
EC10	>1,000 mg/l (BES)
EC50/72h	1-10 mg/l (Scenedesmus subspicatus)

**Reaction product of Maleic anhydride, 2-Ethylhexylamine and Triethanolamine**

EC10/16h	>1,000 mg/l (pseudomonas putida)
EC10	>1 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	>100 mg/l (daphnia magna)
EC50/72h	>100 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>100 mg/l (Leuciscus idus)

- **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.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Additional 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 unneutralised. 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. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 29*	detergents containing hazardous substances

- **Uncleaned packaging:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**

- **ADR, IMDG, IATA**

UN3264

- **14.2 UN proper shipping name**

- **ADR**

3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (methanesulphonic acid)

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· <u>IMDG, IATA</u>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (methanesulphonic acid)
· <b>14.3 Transport hazard class(es)</b>	
· <u>ADR</u>	
	
· <u>Class</u>	8 (C1) Corrosive substances.
· <u>Label</u>	8
· <u>IMDG, IATA</u>	
	
· <u>Class</u>	8 Corrosive substances.
· <u>Label</u>	8
· <b>14.4 Packing group</b>	
· <u>ADR, IMDG, IATA</u>	II
· <b>14.5 Environmental hazards:</b>	
· <u>Marine pollutant:</u>	No
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
· <u>Hazard identification number (Kemler code):</u>	80
· <u>EMS Number:</u>	F-A,S-B
· <u>Segregation groups</u>	Acids
· <u>Stowage Category</u>	B
· <u>Stowage Code</u>	SW2 Clear of living quarters.
· <u>Segregation Code</u>	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u>	
· <u>Limited quantities (LQ)</u>	1L
· <u>Excepted quantities (EQ)</u>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <u>Transport category</u>	2
· <u>Tunnel restriction code</u>	E
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	1L
· <u>Excepted quantities (EQ)</u>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <u>UN "Model Regulation":</u>	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (METHANESULPHONIC ACID), 8, II

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**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.

· REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:· Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU

0.0 g/l

**· 15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 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.

· Department issuing SDS:

Laboratory

· Date of previous version:

21.02.2022

· Version number of previous version:

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· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord relatif au transport international 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)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative

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# Safety data sheet

according to 1907/2006/EC, Article 31

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**Trade name: ACID CLEANER**

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Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU