

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SURFACE RUST REMOVER - 5 L

Version 1.6      Revision Date: 18.05.2017      SDS Number: 397353-00007      Date of last issue: 29.03.2017  
Date of first issue: 04.12.2015

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

#### 1.1 Product identifier

Trade name : SURFACE RUST REMOVER - 5 L  
Product code : 0890130

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

Use of the Sub- : Detergent  
stance/Mixture : Cleaning agent

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

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau  
  
Telephone : +49 794015 0  
  
Telefax : +49 794015 10 00  
  
E-mail address of person : prodsafe@wuerth.com  
responsible for the SDS

#### 1.4 Emergency telephone number

Giftnotrufzentrale Berlin +49 30 30686 790. Gesellschaft (07:00 – 18:00 Uhr) +49 794015 2552

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1      H290: May be corrosive to metals.  
  
Chronic aquatic toxicity, Category 3      H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H290 May be corrosive to metals.

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H412    Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P234    Keep only in original container.  
P273    Avoid release to the environment.

**Response:**

P390    Absorb spillage to prevent material damage.

**Additional Labelling**

EUH208      Contains but-2-yne-1,4-diol. May produce an allergic reaction.

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrochloric acid	7647-01-0 231-595-7 017-002-01-X 01-2119484862-27	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	$\geq 3 - < 5$
Ethoxylated octadecanamine	26635-92-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,25 - < 1$
but-2-yne-1,4-diol	110-65-6 203-788-6 603-076-00-9 01-2119489899-05	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	$\geq 0,1 - < 1$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical

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advice.

- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

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

Risks : May produce an allergic reaction.

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Chlorine compounds

### 5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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for firefighters	Use personal protective equipment.
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
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#### 6.2 Environmental precautions

Environmental precautions	: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.

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Advice on safe handling : Do not get on skin or clothing.  
Avoid inhalation of vapour or mist.  
Do not swallow.  
Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice.  
Keep away from metals. Store in original container or corrosive resistant and/or lined container.  
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store in original container. Store in accordance with the particular national regulations. Reacts with many metals to liberate hydrogen gas which can form explosive mixtures with air. Hydrogen, a highly flammable gas, can accumulate to explosive concentrations inside drums, or any types of steel containers or tanks upon storage.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents

Storage class (TRGS 510) : 8A, Combustible, corrosive hazardous materials

Storage period : 24 Months

Recommended storage temperature : > 5 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrochloric acid	7647-01-0	STEL	10 ppm 15 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		TWA	5 ppm 8 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			

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		AGW	2 ppm 3 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(l)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
but-2-yne-1,4-diol	110-65-6	AGW (Vapour and aerosols)	0,1 ppm 0,36 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	1;(l)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Sum of vapor and aerosols., Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrochloric acid	Workers	Inhalation	Long-term local effects	8 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	15 mg/m <sup>3</sup>
but-2-yne-1,4-diol	Workers	Inhalation	Long-term systemic effects	0,02 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	2 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,02 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	2 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,01 mg/kg bw/day
	Workers	Skin contact	Acute local effects	4 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,01 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	1 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0,01 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	1 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0,008 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	2 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,008 mg/kg bw/day

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### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Hydrochloric acid	Fresh water	36 µg/l
	Marine water	36 µg/l
	Intermittent use/release	45 µg/l
	Sewage treatment plant	36 µg/l
but-2-yne-1,4-diol	Fresh water	0,3 mg/l
	Marine water	0,03 mg/l
	Intermittent use/release	0,3 mg/l
	Sewage treatment plant	1990 mg/l
	Fresh water sediment	1,09 mg/kg
Marine sediment	0,11 mg/kg	
	Soil	0,043 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Safety glasses

#### Hand protection

Material : Nitrile rubber  
Break through time : > 240 min  
Glove thickness : 0,35 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Acidic gas/vapour type (E)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Appearance : liquid

Colour : clear

Odour : characteristic

Odour Threshold : No data available

pH : 0,2

Melting point/freezing point : No data available

Initial boiling point and boiling range : 100 °C

Flash point : No data available  
Other information: No data available

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 23 hPa (20 °C)

Relative vapour density : No data available

Density : 1,02 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

    Water solubility : completely miscible

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

    Viscosity, kinematic : > 20,5 mm<sup>2</sup>/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information



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Metal corrosion rate : Corrosive to metals

Particle size : Not applicable

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.  
May be corrosive to metals.

#### 10.4 Conditions to avoid

Conditions to avoid : None known.

#### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents  
Bases

#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

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### Components:

#### **Hydrochloric acid:**

Acute inhalation toxicity : LC50 (Rat): 8,3 mg/l  
Exposure time: 30 min  
Test atmosphere: dust/mist

#### **Ethoxylated octadecanamine:**

Acute oral toxicity : LD50 (Rat): 1.260 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

#### **but-2-yne-1,4-diol:**

Acute oral toxicity : LD50 (Rat): 132 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,69 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): 659 mg/kg  
Method: OECD Test Guideline 402

#### **Skin corrosion/irritation**

Not classified based on available information.

### Components:

#### **Hydrochloric acid:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Corrosive after 3 minutes to 1 hour of exposure

#### **but-2-yne-1,4-diol:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Corrosive after 3 minutes to 1 hour of exposure

#### **Serious eye damage/eye irritation**

Not classified based on available information.

### Components:

#### **Hydrochloric acid:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Irreversible effects on the eye

#### **Ethoxylated octadecanamine:**

Result: Irreversible effects on the eye

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Remarks: Based on data from similar materials

### **but-2-yne-1,4-diol:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Hydrochloric acid:**

Test Type: Maximisation Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative

#### **Ethoxylated octadecanamine:**

Test Type: Maximisation Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative  
Remarks: Based on data from similar materials

### **but-2-yne-1,4-diol:**

Exposure routes: Skin contact  
Result: positive  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Assessment: Probability or evidence of skin sensitisation in humans

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Hydrochloric acid:**

Genotoxicity in vitro : Test Type: Saacharomyces cerevisiae, mitotic recombination assay (in vitro)  
Result: negative

### **but-2-yne-1,4-diol:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

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Method: OECD Test Guideline 473  
Result: negative

: Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Hydrochloric acid:**

Species: Rat  
Application Route: Inhalation  
Exposure time: 128 weeks  
Result: negative

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **but-2-yne-1,4-diol:**

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 415  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

### **STOT - single exposure**

Not classified based on available information.

### **Components:**

#### **Hydrochloric acid:**

Assessment: May cause respiratory irritation.

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### **but-2-yne-1,4-diol:**

Assessment: May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified based on available information.

### **Components:**

#### **but-2-yne-1,4-diol:**

Exposure routes: Ingestion

Target Organs: Kidney, Liver, spleen

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

### **Aspiration toxicity**

Not classified based on available information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

##### **Ethoxylated octadecanamine:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,1 - 1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,1 - 1 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): > 0,001 - 0,01 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

##### **but-2-yne-1,4-diol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 53,6 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 26,8 mg/l  
Exposure time: 48 h

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 1.058 mg/l

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Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 346 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC10 (Pseudomonas putida): 1.990 mg/l  
Exposure time: 17 h

### 12.2 Persistence and degradability

#### Components:

##### **Ethoxylated octadecanamine:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d  
Remarks: Based on data from similar materials

##### **but-2-yne-1,4-diol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 19 d

### 12.3 Bioaccumulative potential

#### Components:

##### **but-2-yne-1,4-diol:**

Partition coefficient: n-  
octanol/water : log Pow: -0,73

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes  
are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in  
discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste han-  
dling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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Waste Code : The following Waste Codes are only suggestions:

- used product  
070600, wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
- unused product  
070600, wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
- uncleaned packagings  
150110, packaging containing residues of or contaminated by dangerous substances

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### SECTION 14: Transport information

#### 14.1 UN number

ADN : UN 1789  
ADR : UN 1789  
RID : UN 1789  
IMDG : UN 1789  
IATA : UN 1789

#### 14.2 UN proper shipping name

ADN : HYDROCHLORIC ACID  
ADR : HYDROCHLORIC ACID  
RID : HYDROCHLORIC ACID  
IMDG : HYDROCHLORIC ACID  
IATA : Hydrochloric acid

#### 14.3 Transport hazard class(es)

ADN : 8  
ADR : 8  
RID : 8  
IMDG : 8  
IATA : 8

#### 14.4 Packing group

ADN  
Packing group : III  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8

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### ADR

Packing group : III  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

### RID

Packing group : III  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8

### IMDG

Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

### IATA (Cargo)

Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

### IATA (Passenger)

Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on : Not applicable

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the market and use of certain dangerous substances, preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
16	Hydrogen chloride (liquefied gas)	25 t	250 t

Water contaminating class (Germany) : WGK 1 slightly water endangering  
Classification according VwVwS, Annex 4.

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0 %, 0 g/l  
Remarks: VOC content excluding water

Regulation (EC) No. 648/2004, as amended : less than 5 %: Non-ionic surfactants

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

#### Full text of H-Statements

H290 : May be corrosive to metals.  
H301 : Toxic if swallowed.  
H302 : Harmful if swallowed.  
H311 : Toxic in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H331 : Toxic if inhaled.  
H335 : May cause respiratory irritation.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

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### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Acute aquatic toxicity
Aquatic Chronic	:	Chronic aquatic toxicity
Eye Dam.	:	Serious eye damage
Met. Corr.	:	Corrosive to metals
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
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### Classification of the mixture:

Met. Corr. 1	H290
Aquatic Chronic 3	H412

### Classification procedure:

Based on product data or assessment
Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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