

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 19/05/2016 Revision date: 30/04/2025 Supersedes version of: 27/04/2022 Version: 1.4

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

#### 1.1. Product identifier

Product form : Substance

Trade name : Hydrofluoric acid 40% AGR Chemical name : hydrofluoric acid ... % **IUPAC** name : hydrogen fluoride EC Index-No. : 009-003-00-1 EC-No. : 231-634-8 CAS-No. : 7664-39-3 **REACH registration No** : 01-2119458860-33

Product code : FLAC-00A Formula : HF

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

#### Relevant identified uses

Main use category : Laboratory use

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

labbox labware s.l. Migjorn, 1

P.O. Box Barcelona (SPAIN) 08338 Premia de Dalt, SPAIN

T +34 937 07 79 70, F +34 937 909 532 info@labbox.com, www.labbox.com

## 1.4. Emergency telephone number

+34 937 077 970 (For technical information\_Office Hours) In case of medical emergency **Emergency number** 

phone 112 or to your local emergency number.

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhal.), Category 2 H330 Acute toxicity (dermal), Category 1 H310 Acute toxicity (oral), Category 2 H300 Skin corrosion/irritation, Category 1A H314

Full text of H and EUH statements: see section 16

Specific concentration limits (%):

 $(0,1 \le C < 1)$ Eye Irrit. 2; H319  $(1 \le C < 7)$ Skin Corr. 1B; H314  $(7 \le C < 100)$ Skin Corr. 1A; H314

## Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS06

GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H330 - Fatal if inhaled.

H310 - Fatal in contact with skin. H300 - Fatal if swallowed.

H314 - Causes severe skin burns and eye damage.

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

No additional information available

Precautionary statements (CLP)

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
Hydrofluoric acid	CAS-No.: 7664-39-3 EC-No.: 231-634-8 EC Index-No.: 009-003-00-1 REACH-no: 01-2119458860- 33	> 38

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical

advice/attention.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash skin with plenty of water. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Consult an eye specialist.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. If the person is fully conscious, make him/her drink

warm water (1/2 litre). Never give an unconscious person anything to drink.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : Corrosive to the respiratory tract.

Symptoms/effects after skin contact : Causes severe burns.

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Symptoms/effects after eye contact : Causes serious eve burns.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

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

Never give anything by mouth to an unconscious person.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

: Water spray. Sand. Carbon dioxide. Foam. Dry powder. Suitable extinguishing media

Unsuitable extinguishing media : Strong water jet.

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

Hazardous decomposition products in case of fire : Corrosive vapours.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

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

General measures : Do not inhale vapour. See Heading 8.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters.

## 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up Take up liquid spill into absorbent material. On land, sweep or shovel into suitable

containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible.

#### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

## 7.3. Specific end use(s)

Laboratory chemicals.

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

## 8.1. Control parameters

National occupational exposure and biological limit values

National occupational exposure and biological limit values		
Hydrofluoric acid 40% AGR (7664-39-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Hydrogen fluoride	
IOEL TWA	1,5 mg/m³	
	1,8 ppm	
IOEL STEL	2,5 mg/m³	
	3 ppm	
France - Occupational Exposure Limits		
Local name	Fluorure d'hydrogène (Acide fluorhydrique)	
VME (OEL TWA)	1,5 mg/m³	
	1,8 ppm	
VLE (OEL Ceiling/STEL)	2,5 mg/m³	
	3 ppm	
Remark	Valeurs règlementaires contraignantes	
Germany - Occupational Exposure Limits (TRGS 900)		
Local name	Fluorwasserstoff	
AGW (OEL TWA)	0,83 mg/m³	
	1 ppm	
Remark	DFG,EU,Y,H	
Italy - Occupational Exposure Limits		
Local name	Acido fluoridrico	
OEL TWA	1,5 mg/m³	
	1,8 ppm	
OEL STEL	2,5 mg/m³	
	3 ppm	
Portugal - Occupational Exposure Limits		
Local name	Ácido fluorídrico , expresso em F	
OEL TWA	0,5 ppm	
OEL Ceiling	2 ppm	
Spain - Occupational Exposure Limits	•	
Local name	Fluoruro de hidrógeno	
VLA-ED (OEL TWA)	1,5 mg/m³	
	1,8 ppm	
VLA-EC (OEL STEL)	2,5 mg/m³	
	3 ppm	
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Hydrofluoric acid 40% AGR (7664-39-3)		
Remark	VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).	
United Kingdom - Occupational Exposure Limits		
Local name	Hydrogen fluoride	
WEL TWA (OEL TWA)	1,5 mg/m³ (as F)	
	1,8 ppm (as F)	
WEL STEL	2,5 mg/m³ (as F)	
	3 ppm (as F)	

#### **DNEL and PNEC**

Hydrofluoric acid 40% AGR (7664-39-3)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	2,5 mg/m³	
Acute - local effects, inhalation	2,5 mg/m³	
Long-term - systemic effects, inhalation	1,5 mg/m³	
Long-term - local effects, inhalation	1,5 μg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	0,03 mg/m³	
Acute - systemic effects, oral	0,01 mg/kg bodyweight/day	
Acute - local effects, inhalation	1,25 mg/m³	
Long-term - systemic effects,oral	0,01 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0,03 mg/m³	
Long-term - local effects, inhalation	0,2 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0,9 mg/l	
PNEC aqua (marine water)	0,9 mg/l	
PNEC (Soil)		
PNEC soil	11 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	51 mg/l	

## 8.2. Exposure controls

## Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Do not inhale vapour.

## Personal protection equipment

## Personal protective equipment:

EN 374.

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#### Personal protective equipment symbol(s):









#### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

#### **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Туре	Standard
Protective clothing	

#### Hand protection:

protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)				

### Other skin protection

#### Materials for protective clothing:

Wear safety footwear

## **Respiratory protection**

#### Respiratory protection:

Wear appropriate mask

Respiratory protection			
Device	Filter type	Condition	Standard
Gas mask	Type E - Sulfur dioxide and hydrogen chloride (acidic gases)		

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. : Not available Odour Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : 112 °C Flammability : Not available Lower explosion limit : Not available : Not available Upper explosion limit : Not available Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available рΗ : Not available Viscosity, kinematic

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Solubility Soluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Not available Vapour pressure at 50 °C Not available Density 1,13 g/cm<sup>3</sup> Relative density Not available Relative vapour density at 20 °C Not available Particle characteristics : Not applicable

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Fatal if swallowed.

Acute toxicity (dermal) : Fatal in contact with skin.

Acute toxicity (inhalation) : Fatal if inhaled.

Hydrofluoric acid 40% AGR (7664-39-3)	
LD50 oral rat	891 mg/kg
LD50 dermal rat	500 mg/kg
LC50 inhalation rat (mg/l)	342 μg/m³

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Assumed to cause serious eye damage

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

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## 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term

: Not classified

(acute)

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

Hydrofluoric acid 40% AGR (7664-39-3)	
LC50 - Fish [1]	51 mg/l Test organisms (species): other:summary of finidngs in various species
LC50 - Fish [2]	165 mg/l Test organisms (species): other:summary of finidngs in various species
EC50 - Daphnia [1]	97 mg/l
EC50 72h - Algae [1]	43 mg/l
NOEC (chronic)	14,1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '21 d'

#### 12.2. Persistence and degradability

Hydrofluoric acid 40% AGR (7664-39-3)	
Persistence and degradability	Rapidly degradable

## 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

## 14.1. UN number or ID number

UN-No. (ADR) : UN 1790

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 UN-No. (IMDG)
 : UN 1790

 UN-No. (IATA)
 : UN 1790

 UN-No. (ADN)
 : UN 1790

 UN-No. (RID)
 : UN 1790

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : HYDROFLUORIC ACID
Proper Shipping Name (IMDG) : HYDROFLUORIC ACID
Proper Shipping Name (IATA) : Hydrofluoric acid
Proper Shipping Name (ADN) : HYDROFLUORIC ACID
Proper Shipping Name (RID) : HYDROFLUORIC ACID

Transport document description (ADR) (ADR) : UN 1790 HYDROFLUORIC ACID, 8 (6.1), II, (E)
Transport document description (IMDG) : UN 1790 HYDROFLUORIC ACID, 8 (6.1), II
Transport document description (ADN) : UN 1790 HYDROFLUORIC ACID, 8 (6.1), II
Transport document description (ADN) : UN 1790 HYDROFLUORIC ACID, 8 (6.1), II
Transport document description (RID) : UN 1790 HYDROFLUORIC ACID, 8 (6.1), II

## 14.3. Transport hazard class(es)

## ADR

Transport hazard class(es) (ADR) : 8 (6.1)
Danger labels (ADR) : 8, 6.1





#### **IMDG**

Transport hazard class(es) (IMDG) : 8 (6.1)
Danger labels (IMDG) : 8, 6.1





#### IATA

Transport hazard class(es) (IATA) : 8 (6.1)
Danger labels (IATA) : 8, 6.1





#### **ADN**

Transport hazard class(es) (ADN) : 8 (6.1)
Danger labels (ADN) : 8, 6.1





#### RID

Transport hazard class(es) (RID) : 8 (6.1)
Danger labels (RID) : 8, 6.1





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## 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

#### 14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : CT1
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T8
Portable tank and bulk container special provisions : TP2

(ADR)

Tank code (ADR) : L4DH
Tank special provisions (ADR) : TU14, TE21
Vehicle for tank carriage : AT
Transport category (ADR) : 2

Special provisions for carriage - Loading, unloading :

and handling (ADR)

Hazard identification number (Kemler No.) : 86

Orange plates :

86 1790

CV13, CV28

Tunnel restriction code (ADR) : E
EAC code : 2W
APP code : B

#### Transport by sea

Limited quantities (IMDG) : 1L Excepted quantities (IMDG) : E2 : P001 Packing instructions (IMDG) Special packing provisions (IMDG) : PP81 IBC packing instructions (IMDG) : IBC02 IBC special provisions (IMDG) : B20 Tank instructions (IMDG) T8 Tank special provisions (IMDG) : TP2 Stowage category (IMDG) : D

Stowage and handling (IMDG) : SW1, SW2, H2 Segregation (IMDG) : SGG1A, SG36, SG49

Properties and observations (IMDG) : Colourless liquid with an irritating odour. Highly corrosive to glass, other siliceous materials

and most metals. Toxic if swallowed, by skin contact or by inhalation. Both the liquid and its

fumes cause severe burns to skin, eyes and mucous membranes.

## Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L

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CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
ERG code (IATA) : 8P

#### **Inland waterway transport**

Classification code (ADN) : CT1
Special provisions (ADN) : 802
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02 Number of blue cones/lights (ADN) : 2

#### Rail transport

Classification code (RID) : CT1
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions (RID) : T8
Portable tank and bulk container special provisions : TP2

(RID)

Tank codes for RID tanks (RID) : L4DH

Special provisions for RID tanks (RID) : TU14, TE17, TE21, TT4

Transport category (RID) : 2

Special provisions for carriage - Loading, unloading : CW13, CW28

and handling (RID)

Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 86

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code Applicable on		
3.	Hydrofluoric acid 40% AGR	
3(b)	Hydrofluoric acid 40% AGR	

#### **REACH Annex XIV (Authorisation List)**

Hydrofluoric acid 40% AGR is not on the REACH Annex XIV List

#### **REACH Candidate List (SVHC)**

Hydrofluoric acid 40% AGR is not on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Hydrofluoric acid 40% AGR is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

### **POP Regulation (Persistent Organic Pollutants)**

Hydrofluoric acid 40% AGR is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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#### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

#### **Dual-Use Regulation (428/2009)**

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

#### **Drug Precursors Regulation (273/2004)**

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

#### **National regulations**

#### France

Occupational diseases	
Code	Description
RG 32	Occupational disorders caused by fluoride, hydrofluoric acid and its mineral salts

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).

Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic

requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the

shipping route (according to § 10).

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

## **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Ontwikkeling

## **Denmark**

**Danish National Regulations** : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

## 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Full text of H- and EUH-statements:		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	

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Full text of H- and EUH-statements:		
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
H300	Fatal if swallowed.	
H310	Fatal in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.