

acc. to Regulation (EC) No. 1907/2006 (REACH)

WE MAKE CHEMISTRY WORK

### **FACADECLEAN EXTRA STRONG**

Version number: GHS 2.0 Revision: 2023-06-29 Replaces version of: 2023-01-25 (GHS 1)

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

#### 1.1 Product identifier

Trade name Facadeclean Extra Strong

Alternative number(s) 57646

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

Relevant identified uses

Masonry Cleaner

Cleaning agent

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

Mavro International BV Heksekamp 1 5301 LX Zaltbommel Netherlands

Telephone: +31 418 680 680 e-mail: info@mavro-int.com

Website: https://www.mavro-int.com

### 1.4 Emergency telephone number

Emergency information service +31 418 680 680

This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

Poison centre

Country	Name	Postal code/ city	Telephone	Telefax	Opening hours
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital		0344 892 0111		Mon - Fri 12:00 AM - 12:00 AM

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
2.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.10	acute toxicity (oral)	2	Acute Tox. 2	H300
3.1D	acute toxicity (dermal)		Acute Tox. 1	H310
3.11	acute toxicity (inhal.)	2	Acute Tox. 2	H330

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Section Hazard class Hazard class and cat-Hazard state-Category egory ment 3.2 1A Skin Corr. 1A H314 skin corrosion/irritation 3.3 Eye Dam. 1 H318 serious eye damage/eye irritation

For full text of abbreviations: see SECTION 16.

### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

### 2.2 Label elements

#### Labelling

- Signal word danger

- Pictograms

GHS05, GHS06



#### - Hazard statements

**H290** May be corrosive to metals.

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

#### - Precautionary statements

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

P262 Do not get in eyes, on skin, or on clothing.

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

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wa-

ter or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

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

#### - Supplemental hazard information

**EUH210** Safety data sheet available on request.

- Hazardous ingredients for labelling Hydrogen fluoride, hydrogen chloride

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq$  0,1%.

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hydrogen fluoride	CAS No 7664-39-3 EC No 231-634-8 Index No 009-003-00-1	10 - < 25	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 Skin Corr. 1A / H314 Eye Dam. 1 / H318	
hydrogen chloride	CAS No 7647-01-0 EC No 231-595-7 Index No 017-002-00-2	5 - < 10	Acute Tox. 3 / H331 Skin Corr. 1A / H314	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Hydrogen fluoride	Skin Corr. 1A; H314: C ≥ 7 % Skin Corr. 1B; H314: 1 % ≤ C < 7 % Eye Dam. 1; H318: C ≥ 1 % Eye Irrit. 2; H319: 0.1 % ≤ C < 1 %	-	5 <sup>mg</sup> / <sub>kg</sub> 5 <sup>mg</sup> / <sub>kg</sub> 0.5 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: vapour
hydrogen chloride	-	-	3 <sup>mg</sup> / <sub>I</sub> /4h	inhalation: vapour

For full text of abbreviations: see SECTION 16.

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

### 4.1 Description of first aid measures

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Rub with a gel containing calcium gluconate. Get immediate medical advice/attention.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Get immediate medical advice/attention.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get immediate medical advice/attention.

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

Symptoms and effects are not known to date.

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

none

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

### Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

### Unsuitable extinguishing media

Water jet

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

Substance or mixture corrosive to metals.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains

#### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

### Appropriate containment techniques

Neutralisation techniques. Use of adsorbent materials.

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

- Handling of incompatible substances or mixtures

Do not mix with alkali.

- Keep away from

Caustic solutions

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

- Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Identi- fier	TWA (ppm)	TWA [mg/m³]	STEL (ppm)		Ceiling- C (ppm)	Nota- tion	Source
EU	hydrogen chloride	7647-01-0	IOELV	5	8	10	15			2000/ 39/EC
EU	hydrogen fluoride	7664-39-3	IOELV	1.8	1.5	3	2.5			2000/ 39/EC
GB	hydrogen chloride	7647-01-0	WEL	1	2	5	8		90	EH40/ 2005
CB	hydrogen fluoride	7664-39-3	WEL	1.8	1.5	3	2.5		F	EH40/ 2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

F calculated as F (fluorine) ga as gases and aerosols

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Notation

STEL TWA

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute

period (unless otherwise specified)

time-weighted average (long-term exposure limit); measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

### Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrogen fluoride	7664-39-3	DNEL	1.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrogen fluoride	7664-39-3	DNEL	2.5 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Hydrogen fluoride	7664-39-3	DNEL	1.5 µg/m³	human, inhalatory	worker (industry)	chronic - local ef- fects
Hydrogen fluoride	7664-39-3	DNEL	2.5 mg/m³	human, inhalatory	worker (industry)	acute - local effects
hydrogen chloride	7647-01-0	DNEL	8 mg/m³	human, inhalatory	worker (industry)	chronic - local ef- fects
hydrogen chloride	7647-01-0	DNEL	15 mg/m³	human, inhalatory	worker (industry)	acute - local effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Hydrogen fluoride	7664-39-3	PNEC	0.9 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Hydrogen fluoride	7664-39-3	PNEC	0.9 <sup>mg</sup> / <sub>I</sub>	aquatic organisms	marine water	short-term (single instance)
Hydrogen fluoride	7664-39-3	PNEC	51 <sup>m9</sup> / <sub>I</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hydrogen fluoride	7664-39-3	PNEC	11 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

#### 8.2 **Exposure controls**

### Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

### Eye/face protection

Wear eye/face protection.

#### Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

- Type of material

IIR: isobutene-isoprene (butyl) rubber

- Material thickness

>0,32mm

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### - Breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### - Other protection measures

Wash hands thoroughly after handling.

#### Body protection

Protective clothing against liquid chemicals.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	<u> </u>		
Physical state	liquid		
Colour	colourless		
Odour	characteristic		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
Flammability	non-combustible		
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not relevant		
pH (value)	1 (acid)		
Kinematic viscosity	45 mm²/s		

### Solubility(ies)

Water solubility	miscible in any proportion
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#### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	not determined
Density and/or relative density	
Density	1.11 9/ <sub>cm³</sub>
Relative vapour density	information on this property is not available
Particle characteristics	not relevant (liquid)
Other information	
Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	

### SECTION 10: Stability and reactivity

### 10.1 Reactivity

9.2

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

Completely miscible with water.

### 10.2 Chemical stability

Miscibility

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Bases, Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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#### Classification acc. to GHS

#### Acute toxicity

Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled.

#### - Acute toxicity estimate (ATE)

 $\begin{array}{ll} \text{Oral} & 20.83 \, \frac{\text{mg}}{\text{kg}} \\ \text{Dermal} & 20.83 \, \frac{\text{mg}}{\text{kg}} \\ \text{Inhalation: vapour} & 1.949 \, \frac{\text{mg}}{\text{l/4}} \\ \end{array}$ 

### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Hydrogen fluoride	7664-39-3	oral	5 <sup>mg</sup> / <sub>kg</sub>
Hydrogen fluoride	7664-39-3	dermal	5 <sup>mg</sup> / <sub>kg</sub>
Hydrogen fluoride	7664-39-3	inhalation: vapour	0.5 <sup>mg</sup> / <sub>l</sub> /4h
hydrogen chloride	7647-01-0	inhalation: vapour	3 <sup>mg</sup> / <sub>l</sub> /4h

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

There is no additional information.

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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq$  0,1%.

#### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Regeneration of acids.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADR/RID UN 2922 IMDG-Code UN 2922 ICAO-TI UN 2922

### 14.2 UN proper shipping name

ADR/RID CORROSIVE LIQUID, TOXIC, N.O.S. IMDG-Code CORROSIVE LIQUID, TOXIC, N.O.S.

ICAO-TI Corrosive liquid, toxic, n.o.s.

Technical name (hazardous ingredients)

Hydrogen fluoride, hydrogen chloride

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### 14.3 Transport hazard class(es)

ADR/RID 8 (6.1)
IMDG-Code 8 (6.1)
ICAO-TI 8 (6.1)

### 14.4 Packing group

ADR/RID | IMDG-Code | ICAO-TI | I

14.5 Environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information

Classification code CT1

Danger label(s) 8+6.1





Special provisions (SP) 274, 802(ADN)

Excepted quantities (EQ) E0
Limited quantities (LQ) 0
Transport category (TC) 1
Tunnel restriction code (TRC) C/D
Hazard identification No 886
Emergency Action Code 2X

# Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information

Classification code CT1

Danger label(s) 8+6.1





Special provisions (SP) 274, 802(ADN)

Excepted quantities (EQ) E0
Limited quantities (LQ) 0
Transport category (TC) 1

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Hazard identification No

886

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -

Danger label(s) 8+6.1

Special provisions (SP) 274
Excepted quantities (EQ) E0
Limited quantities (LQ) 0

EmS F-A, S-B

Stowage category B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 8+6.1





Special provisions (SP) A3
Excepted quantities (EQ) E0

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

### National inventories

Count	y Inventory	Status
EU	REACH Reg.	all ingredients are listed

Legend

REACH Reg. REACH registered substances

#### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### **SECTION 16: Other information**

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con- cerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, are identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-l cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the Unite Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million

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Abbr.	Descriptions of used abbreviations
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDC). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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