



## Safety Data Sheet according to regulation (EC)

No. 1907/2006 (REACH)

Print date 19.08.2020

Revision 19.08.2020

**Q-ULTRA-CLEAN**

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

#### 1.1. Product identifier

**Brand name**

Q-ULTRA-CLEAN

Code-Nr. 200610

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

##### Relevant identified uses

Cleaning of stainless steel, aluminium and nonferrous metal surfaces

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

##### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Q-railing Europe GmbH & Co. KG  
Marie-Curie-Strasse 12-14,  
46446 Emmerich am Rhein, Germany  
Telephone +49 2822 915690  
E-Mail [sales.de@q-railing.com](mailto:sales.de@q-railing.com)  
[www.q-railing.com](http://www.q-railing.com)

**Information contact**

Sales  
Telephone +49 2822 915690  
E-Mail [sales.de@q-railing.com](mailto:sales.de@q-railing.com)  
[www.q-railing.com](http://www.q-railing.com)

#### 1.4. Emergency telephone

**Emergency information**

Information center in case of poisoning (Bonn, Germany)  
Telephone +49 228 19 240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Met. Corr. 1; H290 - substance or mixture corrosive to metals: Category 1

Acute Tox. 4; H302 - acute toxicity (oral): Category 4

Acute Tox. 3; H311 - acute toxicity (dermal): Category 3

Skin Corr. 1B; H314 - skin corrosion/irritation: Category 1B

Eye Dam. 1; H318 - serious eye damage/eye irritation: Category 1

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



(GHS05) (GHS06)

**Signal word**

Danger



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**Hazard statements**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.

**Precaution statements**

P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.  
P405 Store locked up.

**Hazardous ingredients for labelling**

hydrofluoric acid  
2-propylheptanol ethoxylate  
phosphoric acid

**2.3. Other hazards**

There is no additional information.

**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

**3.1. Substances**

Not relevant (mixture).

**3.2. Mixtures**

**Hazardous ingredients**

PHOSPHORIC ACID; REACH No. : 01-2119485924-24-xxxx; EC No. : 231-633-2; CAS No. : 7664-38-2

Weight fraction :  $\leq 25\%$

Classification: Met. Corr. 1 / H290, Acute Tox. 4 / H302, Skin Corr. 1B / H314, Eye Dam. 1 / H318

Specific Conc. Limits: Skin Corr. 1B; H314:  $C \geq 25\%$ , Skin Irrit. 2; H315:  $10\% \leq C < 25\%$ , Eye Dam. 1; H318:  $C \geq 25\%$ , Eye Irrit. 2; H319:  $10\% \leq C < 25\%$

CITRIC ACID MONOHYDRATE; REACH No. : 01-2119457026-42-xxxx; EC No. : 201-069-1; CAS No. : 5949-29-1

Weight fraction :  $3 - < 10\%$

Classification: Eye Irrit. 2 / H319

2-PROPYLHEPTANOL ETHOXYLATE; EC No. : Polymer; CAS No. : 160875-66-1

Weight fraction :  $3 - < 5\%$

Classification: Acute Tox. 4 / H302, Eye Dam. 1 / H318

HYDROFLUORIC ACID; REACH No. : 01-2119458860-33-xxxx; EC No. : 231-634-8; CAS No. : 7664-39-3; Index No.: 009-003-00-1; Weight fraction :  $< 1\%$

Classification: Met. Corr. 1 / H290, Acute Tox. 2 / H300, Acute Tox. 1 / H310, Acute Tox. 2 / H330, Skin Corr. 1A / H314, Eye Dam. 1 / H318

Specific Conc. Limits: Skin Corr. 1A; H314:  $C \geq 7\%$ , Skin Corr. 1B; H314:  $1\% \leq C < 7\%$ , Eye Dam. 1; H318:  $C \geq 1\%$ , Eye Irrit. 2; H319:  $0.1\% \leq$

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

Take off immediately all contaminated clothing.



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In all cases of doubt, or when symptoms persist, seek medical advice.

**Following inhalation**

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

**In case of skin contact**

After After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Rub with a gel containing calcium gluconate.

Call a physician immediately. Causes poorly healing wounds.

**Following eye contact**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

Rinse copiously with a calcium gluconate solution.

**Following ingestion**

Rinse mouth. Do not induce vomiting. Call a physician immediately.

**Notes for the doctor**

None

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

These information are not available.

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

None

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

water spray

alcohol resistant foam

fire extinguishing powder

Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

water jet

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

Hazardous decomposition products: Section 10.

Substance or mixture corrosive to metals.

**Hazardous combustion products**

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), phosphorus oxides (P<sub>x</sub>O<sub>y</sub>), hydrogen fluoride (HF)

**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.

**Special protective equipment for firefighters**

use suitable breathing apparatus



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## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Prevent skin contact.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

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

Chemical protection suit.

### 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 clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

#### Appropriate containment 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

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

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

Use local and general ventilation.

### Specific notes/details

None

### Handling of incompatible substances or mixtures

Do not mix with alkali.

### Keep away from

alkalis, keep away from metals

### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

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

#### Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

#### Flammability hazards

None

#### Incompatible substances or mixtures

Incompatible materials: see section 10.

Observe hints for combined storage.

#### Protect against external exposure, such as

Frost

#### Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

#### Ventilation requirements

Provision of sufficient ventilation.

#### Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

#### Packaging compatibilities

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

### 7.3. Specific end use(s)

No information available.



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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limit values (Workplace Exposure Limits)**

ORTHOPHOSPHORIC ACID; CAS No. : 7664-38-2

Country : EU

Identifier : IOELV

TWA : 1 mg/m<sup>3</sup>STEL : 2 mg/m<sup>3</sup>

Source : 2000/39/EC

HYDROGEN FLUORIDE; CAS No. : 7664-39-3

Country : EU

Identifier : IOELV

TWA : 1,5 mg/m<sup>3</sup> ; 1,8 ppmSTEL : 2,5 mg/m<sup>3</sup> ; 3 ppm

Source : 2000/39/EC

ORTHOPHOSPHORIC ACID; CAS No. : 7664-38-2

Country : GB

Identifier : WEL

TWA : 1 mg/m<sup>3</sup>STEL : 2 mg/m<sup>3</sup>

Source : EH40/2005

HYDROGEN FLUORIDE; CAS No. : 7664-39-3

Country : GB

Identifier : WEL

TWA : 1,5 mg/m<sup>3</sup> ; 1,8 ppmSTEL : 2,5 mg/m<sup>3</sup> ; 3 ppm

Source : EH40/2005

Notation : F

**Notation**

F calculated as F (fluorine)

STEL 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)

TWA time-weighted average (long-term exposure limit): measured

**Relevant DNELs of components of the mixture**

PHOSPHORIC ACID; CAS No. : 7664-38-2

Limit value type : DNEL worker (industry)

Exposure route: Inhalation

Exposure frequency : chronic – systemic effects

Limit value : 10,7 mg/m<sup>3</sup>

Limit value type : DNEL consumer (private households)

Exposure route: Inhalation

Exposure frequency : chronic – systemic effects

Limit value : 4,57 mg/m<sup>3</sup>

Limit value type : DNEL consumer (private households)

Exposure route: Oral

Exposure frequency : chronic – systemic effects

Limit value : 0,1 mg/kg bw/day

Limit value type : DNEL worker (industry)

Exposure route: Inhalation

Exposure frequency : chronic – local effects

Limit value : 1 mg/m<sup>3</sup>



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Limit value type : DNEL consumer (private households)  
Exposure route: Inhalation  
Exposure frequency : chronic – local effects  
Limit value : 0,36 mg/m<sup>3</sup>

HYDROFLUORIC ACID; CAS No. : 7664-39-3  
Limit value type : DNEL worker (industry)  
Exposure route: Inhalation  
Exposure frequency : chronic – local effects  
Limit value : 1,5 µg/m<sup>3</sup>

Limit value type : DNEL consumer (private households)  
Exposure route: Inhalation  
Exposure frequency : chronic – systemic effects  
Limit value : 0,03 mg/m<sup>3</sup>

Limit value type : DNEL consumer (private households)  
Exposure route: Oral  
Exposure frequency : chronic – systemic effects  
Limit value : 0,01 mg/kg bw/day

#### Relevant PNECs of components of the mixture

CITRIC ACID MONOHYDRATE; CAS No. : 5949-29-1

Environmental compartment: freshwater  
Threshold level: 0,44 mg/l  
Environmental compartment: marine water  
Threshold level: 0,044 mg/l  
Environmental compartment: sewage treatment plant (STP)  
Threshold level: 1,000 mg/l  
Environmental compartment: freshwater sediment  
Threshold level: 34,6 mg/kg  
Environmental compartment: marine sediment  
Threshold level: 3,46 mg/kg  
Environmental compartment: soil  
Threshold level: 33,1 mg/kg

HYDROFLUORIC ACID; CAS No. : 7664-39-3

Environmental compartment: freshwater  
Threshold level: 0,9 mg/l  
Environmental compartment: marine water  
Threshold level: 0,9 mg/l  
Environmental compartment: sewage treatment plant (STP)  
Threshold level: 51 mg/l  
Environmental compartment: soil  
Threshold level: 11 mg/kg

## 8.2. Exposure controls

### Appropriate engineering controls

General ventilation.

### Eye/face protection

Wear eye/face protection.

### Hand protection

Pelox® PVC acid protective gloves.

### 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.



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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state :	Liquid
Form:	Viscous
Colour:	Green
Odor:	Acidic
Odour threshold:	These information are not available

**Other safety parameters**

pH value:	~1.4
Flash point:	Not applicable
Melting point/freezing point:	These information are not available
Initial boiling point and boiling range:	100 °C
Evaporation rate:	These information are not available
Flammability (solid, gas):	Not relevant

**Explosive limits**

Lower explosion limit :	These information are not available
Upper explosion limit :	These information are not available
Vapor pressure :	These information are not available
Density :	1.25 g/cm <sup>3</sup> at 20 °C
Vapour density:	These information are not available
Relative density:	These information are not available

**Solubility(ies)**

Water solubility:	Miscible in any proportion
n-octanol/water (log KOW):	These information are not available
Auto-ignition temperature:	These information are not available
Relative self-ignition temperature for solids:	Not relevant
Decomposition temperature:	>175 °C

**Viscosity**

Kinematic viscosity :	These information are not available
Dynamic viscosity :	These information are not available
Explosive properties :	Not explosive
Oxidising properties :	Shall not be classified as oxidising

**9.2. Other information**

None





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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Substance or mixture corrosive to metals.

### 10.2. Chemical stability

See below "Conditions to avoid".

### 10.3. Possibility of hazardous reactions

No Alkalis.

Metals (due to the release of hydrogen in an acid/alkaline medium).

### 10.4. Conditions to avoid

May be corrosive to metals.

### 10.5. Incompatible materials

bases, metal, glass

Release of flammable materials with:

light metals (due to the release of hydrogen in an acid/alkaline medium)

### 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.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Classification procedure

If not otherwise specified the classification is based on: Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Test data are not available for the complete mixture.

Harmful if swallowed.

Toxic in contact with skin.

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

PHOSPHORIC ACID; CAS No. : 7664-38-2

Parameter :	ATE
Exposure route:	Oral
Effective dose:	500 mg/kg

2-PROPYLHEPTANOL ETHOXYLATE; CAS No. : 160875-66-1

Parameter :	ATE
Exposure route:	Oral
Effective dose:	500 mg/kg

HYDROFLUORIC ACID; CAS No. : 7664-39-3

Parameter :	ATE
Exposure route:	Oral
Effective dose:	5 mg/kg

Parameter :	ATE
Exposure route:	dermal
Effective dose:	5 mg/kg

Parameter :	ATE
Exposure route:	inhalation: vapour
Effective dose:	0.5 mg/l/4h



**Acute toxicity of components of the mixture**

Parameter :	LD50 (CITRIC ACID MONOHYDRATE); CAS No. : 5949-29-1)
Exposure route :	Oral
Species:	Rat
Effective dose:	> 3000 mg/kg
Parameter :	LD50 (CITRIC ACID MONOHYDRATE); CAS No. : 5949-29-1)
Exposure route :	dermal
Species:	Rat
Effective dose:	> 2000 mg/kg
Parameter :	LD50 ( 2-PROPYLHEPTANOL ETHOXYLATE; CAS No. : 160875-66-1 )
Exposure route:	Oral
Species :	Rat
Effective dose :	300 – 2,000 mg/kg
Parameter :	LD50 ( 2-PROPYLHEPTANOL ETHOXYLATE; CAS No. : 160875-66-1 )
Exposure route:	dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( HYDROFLUORIC ACID; CAS No. : 7664-39-3)
Exposure route:	inhalation: vapour
Species :	Rat
Effective dose :	1,276 mg/m <sup>3</sup> /1h

**Corrosion/irritation**

No Causes severe skin burns and eye damage.

**Classification procedure**

The classification is based on an extreme pH value.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Skin sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Respiratory sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Carcinogenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Germ cell mutagenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Reproductive toxicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**STOT-single exposure**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**STOT-repeated exposure**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.



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

Test data are not available for the complete mixture.

**Aquatic toxicity (acute) of components of the mixture**

PHOSPHORIC ACID; CAS No. : 7664-38-2

Parameter :	EC50
Species :	daphnia magna
Effective dose:	>100 mg/l
Exposure time:	48 h
Parameter :	ErC50
Species :	algae (Desmodesmus subspicatus)
Effective dose:	> 100 mg/l
Exposure time:	72 h
Parameter :	LC50
Species :	blue sunfish (Lepomis macrochirus)
Effective dose:	3 – 3,25 mg/l
Evaluation:	96 h

CITRIC ACID MONOHYDRATE; CAS No. : 5949-29-1

Parameter :	LC50
Species :	orfe (Leuciscus idus)
Effective dose:	440 mg/l
Exposure time:	48 h
Parameter :	LC50
Species :	daphnia magna
Effective dose:	1535 mg/l
Exposure time:	24 h

2-PROPYLHEPTANOL ETHOXYLATE; CAS No. : 160875-66-1

Parameter :	EC50
Species :	Daphnia magna
Effective dose:	>10 – 100 mg/l
Exposure time:	48 h
Parameter :	EC50
Species :	algae (Desmodesmus subspicatus)
Effective dose:	>10 – 100 mg/l
Exposure time:	72 h
Parameter :	LC50
Species :	rainbow trout (Oncorhynchus mykiss)
Effective dose:	>10 – 100 mg/l
Exposure time:	96 h

HYDROFLUORIC ACID; CAS No. : 7664-39-3

Parameter :	EC50
Species :	Trichoptera
Effective dose:	26 – 48 mg/l
Exposure time:	96h
Parameter :	EC50
Species :	algae
Effective dose:	43 mg/l
Exposure time:	96 h

**Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

**Aquatic toxicity (chronic) of components of the mixture**

PHOSPHORIC ACID; CAS No. : 7664-38-2

Parameter :	EC50
Species :	activated sludge of a predominantly domestic sewage
Effective dose:	>1000 mg/l
Exposure time:	3 h



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Parameter :	NOEC
Species :	activated sludge of a predominantly domestic sewage
Effective dose:	1000 mg/l
Exposure time:	3 h
Parameter :	NOEC
Species :	algae ( <i>Desmodesmus subspicatus</i> )
Effective dose:	100 mg/l
Exposure time:	72 h
Parameter :	NOEC
Species :	daphnia magna
Effective dose:	14,1 mg/l
Exposure time:	21 d

### 12.2. Persistence and degradability

#### Degradability of components of the mixture

CITRIC ACID MONOHYDRATE; CAS No. : 5949-29-1

Process :	biotic/abiotic
Degradation rate :	97 %
Test duration:	28 d
Process :	DOC removal
Degradation rate :	100 %
Test duration:	19 d
Process :	DOC removal
Degradation rate :	85 %
Test duration:	14 d
Process :	oxygen depletion
Degradation rate :	>60 %
Test duration:	28 d

#### Biodegradation

The relevant substances of the mixture are readily biodegradable.

#### Persistence

No data available.

### 12.3. Bioaccumulative potential

Test data are not available for the complete mixture.

CITRIC ACID MONOHYDRATE; CAS No. : 5949-29-1

Log KOW: -1.57

HYDROFLUORIC ACID; CAS No. : 7664-39-3

BCF: 53 – 58

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6. Other adverse effects

Data are not available.

### 12.7. Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1



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**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

This material and its container must be disposed of as hazardous waste.

**Sewage disposal-relevant information**

Do not empty into drains.

**Waste treatment of containers/packagings**

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**13.2. Remarks**

Please consider the relevant national or regional provisions.

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**SECTION 14: Transport information****14.1. UN number**

2922

**14.2. UN proper shipping name**

CORROSIVE LIQUID, TOXIC, N.O.S.

**Technical name (hazardous ingredients)**

hydrofluoric acid, phosphoric acid

**14.3. Transport hazard class(es)**

Class 8

Subsidiary risk(s) 6.1 (acute toxicity)

**14.4. Packing group**

II

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

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

-

**14.8. Information for each of the UN Model Regulations****Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

UN number	2922
Proper shipping name	UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (contains: hydrofluoric acid, phosphoric acid), 8 (6.1), II, (E)
Class	8
Classification code	CT1
Packing group	II
Danger label (s)	8+6.1



Special provisions (SP)	274, 802(ADN)
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	86
Emergency Action Code	2X

**International Maritime Dangerous Goods Code (IMDG)**

UN number	2922
Proper shipping name	UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (contains: hydrofluoric acid, phosphoric acid), 8 (6.1), II
Class	8
Subsidiary risk(s)	6.1

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Marine pollutant -  
Packing group II  
Danger label(s) 8+6.1



Special provisions (SP) 274  
Excepted quantities (EQ) E2  
Limited quantities (LQ) 1 L  
EmS F-A, S-B  
Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 2922  
Proper shipping name UN2922, Corrosive liquid, toxic, n.o.s., (contains: hydrofluoric acid, phosphoric acid), 8 (6.1), II  
Class 8  
Subsidiary risk(s) 6.1  
Packing group II  
Danger label(s) 8+6.1



Special provisions (SP) A3  
Excepted quantities (EQ) E2  
Limited quantities (LQ) 0,5 L

## 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)

#### Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

#### Dangerous substances with restrictions (REACH, Annex XVII)

This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC; Restriction R3

#### Legend

R3 1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,

- present an aspiration hazard and are labelled with R65 or H304,

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';

(b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';

(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.



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7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

Not assigned.

### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

### Regulation 648/2004/EC on detergents

Constituents: non-ionic surfactants

Wt% : < 5 %

### Water Framework Directive (WFD)

None of the ingredients are listed.

### Regulation 98/2013/EU on the marketing and use of explosives precursors

None of the ingredients are listed.

### Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

### Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

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

## SECTION 16: Other information

### 16.1. Indication of changes

2.2. Hazardous ingredients for labelling · 3.2. Hazardous ingredients · 8.1. Occupational exposure limit values · 15.1. Dangerous substances with restrictions

### 16.2. Abbreviations and acronyms

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

ADN : Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimate

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DGR: Dangerous Goods Regulations (see IATA/DGR)

DNEL: Derived No-Effect Level

EC50: Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval

EC No: The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an 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-licence/>)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EmS: Emergency Schedule

ErC50: EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control

Eye Dam.: Seriously damaging to the eye





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Eye Irrit.: Irritant to the eye

GHS: "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

IATA : International Air Transport Association

IATA/DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IMDG: 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

LC50: Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval

LD50: Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval

log KOW: n-Octanol/water

MARPOL: International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")

Met. Corr.: Substance or mixture corrosive to metals

NLP: No-Longer Polymer

NOEC: No Observed Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No-Effect Concentration

Ppm: Parts per million

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

SVHC\_ Substance of Very High Concern

TWA: Time-weighted average

vPvB: Very Persistent and very Bioaccumulative

WEL: Workplace exposure limit

### 16.3. Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

### 16.4. Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

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

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

- H290 May be corrosive to metals.
- H300 Fatal if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.

### 16.6. Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data of the hazardous ingredients were taken from the latest safety data sheet of the supplier)