



Q-ULTRA CLEAN

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1. Identification of the substance or preparation:

Q-Ultra Clean

Use of the substance/preparation: Cleaning of stainless steel, aluminium and non-ferrous metal surfaces

Manufacturer/distributor:



Q-railing Europe GmbH & Co.KG
Marie-Curie-Straße 8-14, D-46446 Emmerich am Rhein
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Fax: +49 (0)2822 915 69 70
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Advice

Sales
Phone: +49 (0)2822 915 69 0
Fax: +49 (0)2822 915 69 70
E-mail (competent person): sales@q-railing.com

Emergency telephone number
Emergency advice

Informationszentrale gegen Vergiftungen Bonn
In case of poisoning: Phone +49 (0)228-19 240

2. Hazards identification

2.1 Classification of the substance or mixture

Indications of danger: Xn - Harmful, Xi - Irritant
R-phrases:
Harmful by inhalation, in contact with skin and if swallowed
Irritating to eyes and skin.

GHS classification

Hazard categories:
Acute toxicity. Acute Tox. 4
Acute toxicity: Acute Tox. 3
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Corr. 1B
Hazard Statements:
Harmful if swallowed or if inhaled.
Toxic in contact with skin.
Causes severe skin burns and eye damage.



2.2 Label elements

Hazardous components which must be listed on the label
Phosphoric acid ... %; orthophosphoric acid
Hydrofluoric acid ... %

Signal word: Danger
Pictograms: GHS05-GHS06



Hazard statements

H302+H332 Harmful if swallowed or if inhaled.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
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 or doctor/physician.

3. Composition/information on ingredients

3.2. Mixtures

Hazard components

EG No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-633-2	Phosphoric acid ... %; orthophosphoric acid	25 %
7664-39-3	C- Corrosive R34	
015-011-00-6	Skin Corr. 1B; H314	
231-634-8	Hydrofluoric acid ... %	1 %
7664-39-3	T+ Very toxic, C – Corrosive R26/27/28-35	
009-003-001	Acute Tox. 2, Acute Tox. 1, Acute Tox. 2, Skin Corr. 1A; H330 H310 H300 H314	

Full text of R and H phrases : see Section 16.

4. First aid measures

4.1 Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation



Move victim to fresh air. Put victim at rest and keep warm. No mouth-to-mouth or nose-to-mouth resuscitation. Use respiratory bag or oxygen resuscitation apparatus. If victim is at risk of losing consciousness, position and transport on their side. Consult physician immediately.

After contact with skin

After contact with skin, wash immediately with: Water and soap. Subsequently wash again with: Water.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Let water be swallowed in little sips (dilution effect). Provide fresh air. Immediately get medical attention.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. Water spray. Against bigger fire fight with water fog or alcohol-resistant foam.

5.2 Advice for firefighters

not necessary

Additional information

Cool closed containers with water near by the source of fire. Risk of burst

6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures

not necessary

6.2. Environmental precautions

Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

6.3. Methods and material of containment and cleaning up

Use neutralisation product (e.g. soda, calcium hydroxide, thinned alkali solution) after diluting with plenty of water. Provide adequate ventilation.
Dispose contaminated material as waste according to chapter 13.

7. Handling and storage:

7.1 Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Adequate airing/ suction of the working place must be ensured. Wear personal protection equipment.

Advice on protection against fire and explosion

No special measures are necessary.



7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against: UV-radiation/sunlight. Provide for retaining containers, e.g. floor pan without outflow. Pay attention to material and volume of the container.

Advice on storage compatibility

Not necessary

Further information on storage conditions

none/none

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS-No.	Chemical name	ml/ m ³	mg/m ³	F/m l	Category	Origin
7664-39-3	Hydrogen fluoride (as F)	1.8	1.5		TWA (8h)	WEL
		3	2.5		STEL (15 min)	WEL
7664-38-2	Orthophosphoric acid		1		TWA (8h)	WEL
			2		STEL (15 min)	WEL

Additional advice on limit values

Refer to chapter 7. Additional information about structure of technical plants; materials has to be resistant against hydrofluoric acid.

Exposure controls

Protective and hygiene measures

Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated closing. Wash hands before breaks and at the end of work.

Respiratory protection

Not necessary

Hand protection

Advisable: tested protective gloves are to be worn; suitable material PE (polyethylene), PVC (Polyvinyl chloride)

Eye protection

Tightly sealed safety glasses. Eye-shade

Skin protection

Advisable: chemical resistant suit. Chemical resistant safety shoes.

9. Physical and chemical properties:

9.1 Information on basic physical and chemical properties

Physical state: viscous
Colour: green
Odour: slightly acidic
Test method
pH value : ca. 1,4
Changes in the physical state
Boiling point : ca 106° C



Flash point : not applicable
Flammability :
Solid : not applicable
Gas : not applicable

Explosive properties
Not applicable
Lower explosion limits: not applicable
Upper explosion limits: not applicable
Oxidizing properties
None/not

Density at 20°C: 1,25 g/m³
Water solubility (at 20° C): soluble

10. Stability and reactivity:

Conditions to avoid

Temperature of decomposition: >175°C

Hazardous decomposition products

None/not

11. Toxicological information

Acute toxicity

Irritant effect on the skin: mild irritant
Irritant effect on the eye: irritant

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7664-39-3	Hydrofluoric acid ... %				
	Oral	ATE	5 mg/kg		
	Dermal	ATE	5 mg/kg		
	Inhalative vapour	ATE	0,5 mg/l		
	Inhalativ eresol	ATE	0,05 mg/l		
	Inhalativ (1h) gas	LC50	1610 ppm	Rat	

Sensitising effects

No danger of sensitization

Additional information on tests

After ingestion: irritant on mouth, throat, gullet and stomach

12. Ecological information

12.1. Toxicity

Water Hazard Class: 1 (Lowest hazardous class, self-classification)
Must not enter sewage or feeder ditch undiluted or unnaturalised. The toxic effect for fish and bacteria begins only if complete water is below pH 6.0 and rises with smaller pH factor.

CAS No	Chemical name					
	Aquatic toxicity	Methode	Dose	h	Species	Source



7664-38-2	Phosphoric acid ... %; orthophosphoric acid			
	Acute fish toxicity	LC50 138 mg/l	96	Gambusia affinis

13. Disposal considerations

Advice on disposal

Dispose used acid solution by neutralisation with lime hydrate solution in a suitable container.
Filter accrued neutral mud and dispose as hazardous waste.

Waste disposal

190205 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER INDUSTRIAL USE; wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation); sludges from physico/chemical treatment containing dangerous substances
Classified as hazardous waste.

Waste disposal number of used products

190205 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER INDUSTRIAL USE; wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation); sludges from physico/chemical treatment containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

190205 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER INDUSTRIAL USE; wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation); sludges from physico/chemical treatment containing dangerous substances
Classified as hazardous waste.

Contaminated packaging

Waste disposal according to official state regulations.

14. Transportation information

Land transport (ADR/RID)

14.1 UN number: UN1805
14.2 UN proper shipping name: PHOSPHORIC ACID SOLUTION
14.3 Transport hazard class(es): 8
14.4. Packing group III
Hazard label: 8



Other applicable information (land transport)

Tunnel restriction code: E
Excepted quantities: E1
Transport category: 3

Marine transport (IMDG)

14.1 UN number: UN1805



14.2 UN proper shipping name: PHOSPHORIC ACID SOLUTION
14.3 Transport hazard class(es): 8
14.4. Packing group III
Hazard label: 8



Limited quantity: 5 L inner package, 30 kg gross for outer packaging
EmS: F-A, S-B

Other applicable information (marine transport)
Special provisions: 223

Air transport (ICAO)

14.1 UN number: UN1805
14.2 UN proper shipping name: PHOSPHORIC ACID, SOLUTION
14.3 Transport hazard class(es): 8
14.4. Packing group III
Hazard label: 8



Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 852
IATA-max. quantity – Passenger: 5 L
IATA-packing instructions – Cargo: 856
IATA-max. quantity – Cargo: 60 L

Other applicable information (air transport)

Excepted quantity: E1
Passenger-LQ: Y841
Excepted quantity: 1000 ml per outer package

15. Regulatory information

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

National regulatory information

Water contaminating class (D): 1-slightly water contaminating

16. Other information

Full text of R-Phrases referred to under Sections 2 and 3

20/21/22 Harmful by inhalation and in contact with skin and if swallowed
26/27/28 Very toxic by inhalation, in contact with skin and if swallowed
34 Causes burn
35 Causes severe burns.



36/38 Irritation to eyes and skin

Full text of H statements referred to under Section 2 and 3

H300	Fatal if swallowed
H302+H332	Harmful if swallowed or if inhaled.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe burns and eye damage.
H330	Fatal if inhaled

Further information

We guarantee the compliance of the specified characteristics. These specifications do not represent the assurance of characteristics for certain types of applications. We formally express that the recipient is obliged to inspect the goods before application.

02.08.2018

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