






created: 05.10.2010
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Section 1	Identification of the substance/mixture and the company	
1.1	Product identifier	HydroQuant[®] reagent Cl-3
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Use of substance	Reagent solution for the determination of chlorine/ozone REACH: This product is a preparation For commercial users only.
1.3	Supplier	WAPOTEC GmbH Franz-Sauer-Strasse 44 A-5020 Salzburg Tel: +43 662 434342-0 Fax: +43 662 434342-3
	Contact	Mr. G. Weiss Email: office@wapotec.at
1.4	Emergency phone	+43 662 43 43 42-0 Office hours: MO - TH: 8.00 - 16.00, FR: 8.00 - 12.00 Toxicity information centre Vienna: Phone: +43 1 406 43 43 Available 0-24h

Section 2	Hazards identification	
2.1	Hazard classification of substance or mixture	
		 According to Directive (EC) N° 1272/2008 Not applicable. The product is not classified as dangerous.
		 according to Directive (EC) N° 1999/45 Not applicable. The product is not classified as dangerous.
2.2	Label elements	
		 According to Directive (EC) 1272/2008 Not applicable. The product is not classified as dangerous according to Directive (EC) 1272/2008
		 According to Directive (EC) N° 1999/45 Not applicable. The product is not classified as dangerous according to Directive (EC) N° 1999/45
		 Danger defining components for labeling Not applicable.

- 2.3 Other hazards.
Not applicable.

Section 3 Composition/information on ingredients

- 3.2 Mixtures
- Chemical characteristics
- Aqueous solution
CAS-Nº: 7681-11-0
EC-Nº: 231-659-4
- Dangerous ingredients:
Not applicable.
 - Other information
Potassium iodide < 20%

Section 4 First-aid measures

- 4.1 Description of first aid measures
- After inhalation
Move affected person immediately to fresh air.
Seek medical treatment.
 - After skin contact
After skin contact, wash immediately with plenty of water, remove contaminated clothing immediately. Get medical advice immediately.
 - After eye contact
After eye contact, rinse eye for several minutes (at least 10 minutes) under running water holding eye lids open. Get medical advice immediately.
 - After ingestion
Immediately give plenty of water (400-500 ml), avoid vomiting
Do not attempt to neutralize. Get medical advice immediately.
- 4.2 Most important symptoms and effects, acute and delayed
No further relevant information available.
- 4.3 Indications for immediate medical attention or special treatment needed
No further relevant information available.

Section 5 Fire-fighting measures

- 5.1 Extinguishing media
- Suitable extinguishing media

Adapt extinguishing measures to suit the environment

- ☉ Unsuitable extinguishing media for safety reasons

None.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

5.3 Special protective actions for fire-fighters

- ☉ Special protective equipment

Wear self-contained breathing apparatus.

Wear full protective suit.

- ☉ Additional information

Prevent fire extinguishing water from contaminating surface water or the ground water system. Suppress gases/vapors/mists with a water spray jet.

Section 6

Accidental release measures

6.1 Personal precautions, protective equipment and suitable emergency procedures.

Do not inhale vapors/aerosols. Avoid substance contact. Ensure sufficient ventilation.

6.2 Environmental precautions

Do not empty into drains.

6.3 Measures for cleaning/collecting:

Take up with liquid-absorbent and neutralizing material.

Forward for disposal.

Final cleaning.

6.4 Additional information

Information on protective measures see section 8

Information on disposal see section 13

Section 7

Handling and storage

7.1 Precautions for safe handling

Observe advice on the label or analysis specification.

7.2 Conditions for safe storage including any incompatibilities

Store container tightly closed.

- ☉ Fire and explosion protection measures

No particular protection measures necessary. Do not smoke.

- ☉ Design of storage rooms and container

Store in a cool location.
 Protect from heat and direct sunlight.
 Protect from humidity and keep away from water.
 Protect from the effects of light.
 Store under dry and cool conditions.
 Store in a tightly closed container

☉ Recommended storage temperature: +5°C to +20°C protect from sun

☉ Material incompatibility

No material incompatibility known.

☉ VbF class: Not applicable.

7.3

Specific end uses

Reagent solution for the determination of chlorine/ozone.



Section 8

Exposure controls and personal protection

8.1

Control parameters

The product does not contain relevant quantities of substances with monitored limits based on the workplace.

8.2

Exposure controls

☉ General protective and hygiene measures

Follow usual precautions when dealing with chemicals. Keep away from food, drinks and feed stuff. Do not eat or drink at work, wash hands before breaks and end of work. Change contaminated work wear and clean it before the next wearing. Preventive skin protection.

Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

☉ Respiratory protection

Necessary with appearance of vapors/aerosols. Recommended filter : Filter type E

☉ Hand protection

Wear protective gloves.

Suitable glove material e.g. nitrile rubber (recommended thickness of the material: ≥ 0.11 mm permeation level $6 > 480$ min)

The selection of suitable gloves not only depends on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. The final selection of the glove material must be carried out on the basis of penetration times.

☉ Eye protection

Tightly sealed goggles

☉ Personal protection

Wear acid proof protective clothing.

Preventive skin protection, wash hands and face after working with substance.

 Environmental exposure controls

Do not empty into canalization/surface water/ground water. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Section 9

Physical and chemical properties

9.1	Information on basic physical and chemical properties	
	Appearance	liquid
	Color	colorless
	Odor	odorless
	Odor threshold	not available
	pH-value (20°C)	appr. 6.9
	Melting point	not available
	Boiling point / Boiling range	appr. 105°C
	Flash point	not available
	Evaporation rate	not available
	Flammability	not available
	Upper explosion limit	not available
	Lower explosion limit	not available
	Ignition temperature	not available
	Vapor pressure	not available
	Density	1.6 g/cm ³
	Solubility in water (20°C)	soluble
	Partition coefficient: n-octanol-water	not available
	Decomposition temperature	not available
	Viscosity (20°C)	not available
	Explosive properties	product is not explosive
	Oxidizing properties	not available
9.2.	Other information	
	None.	

Section 10

Stability and reactivity

10.1	Reactivity
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	No data available.
10.2	Chemical stability No data available.
10.3	Possibility of hazardous reactions No data available.
10.4	Conditions to avoid Sensitive to light.
10.5	Incompatible material No data available.
10.6	Hazardous decomposition products No data available.

Section 11**Toxicological information**

11.1	<p>Information on toxicological effects</p> <ul style="list-style-type: none"> <input type="radio"/> LD/LC₅₀ values of individual components relevant for classification (literature values) <p>Acute inhalative toxicity: LD50: rat Dose: 2779 mg/kg (related to pure substance) (IUCLID)</p> <input type="radio"/> Primary irritant effect <p>Skin: irritant Eye: slight irritant: rabbit (related to pure substance) (IUCLID)</p> <input type="radio"/> Sensitization <p>Sensitization possible in predisposed persons.</p> <input type="radio"/> Cancerogenity <p>The product does not contain any ingredients at a concentration equal or higher than 0,1%, being listed as carcinogen at the International Agency for Cancer Research (IARC) or the American Conference for Governmental Industrial Hygienic (ACGIH).</p> <input type="radio"/> Genotoxicity in vitro <p>Ames test Salmonella typhimurium Result: negative (related to pure substance) (IUCLID)</p> <input type="radio"/> Teratogenicity <p>The product showed no reprotoxic activity in animal tests (related to pure substance) (IUCLID)</p> <input type="radio"/> Mutagenicity <p>The product does not contain any ingredients at a concentration equal or higher than 0.1%, being classified as mutagen.</p>
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☉ Reproductive toxicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being classified as reprotoxic.

☉ Additional information:

Hazardous properties cannot be excluded, but are very unlikely when substance is used according to specifications. The usual precautions in handling chemicals have to be taken.

After resorption of toxic quantities:
 Drop in blood pressure, vomiting



Section 12 Ecological information

- 12.1 Toxicity
- ☉ Aquatic toxicity
- Toxic for fish - LC50
 Species: *Oncorhynchus mykiss* (rainbow trout), dose: 8960 mg/l, exposure time: 96h (related to pure substance) (IUCLID)
- 12.2 Persistence and degradability
- No relevant information available.
- 12.3 Bioaccumulation potential
- No relevant information available.
- 12.4 Mobility in soil
- No relevant information available.
- 12.5 Results of PBT- and vPvB-assessment
- No data available.
- 12.6 Other adverse effects
- Harmful effects by change of pH value.
- ☉ Other ecological information
- Do not allow to enter waters, waste water, or soil.



Section 13 Disposal considerations

- 13.1 ☉ Waste treatment methods
- Chemicals must be disposed of in compliance with national and regional regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.
- ☉ Waste key number
- Not applicable.
- ☉ Waste name

Not applicable.

☉ European waste catalogue

EWC-waste key is source-related.

The decision is up to the enduser.

☉ Contaminated packaging material

Chemicals must be disposed of in compliance with national and regional regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Section 14

Transport information

No dangerous good according to regulation for transport of dangerous goods.

14.1

UN-Number

Not applicable.

14.2

Proper UN-shipping name

Not applicable.

14.3

Transport hazard class

Not applicable.

14.4

Packaging group

Not applicable.

14.5

Environmental hazards

Not applicable.

14.6

Special precautions for the user

Not applicable.

14.7

Transport in bulk according to Annex II of MARPOL agreement 73/78 and according to IBC-Code

Not applicable.

Section 15

Regulatory information

15.1

Safety-, health-, ambient- and legislation specific instructions for substance or mixture

This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006.

National regulations:

Austria:

☉ Labeling according to BGBl II 2000/81 ChemV 1999.

The product is not classified and does not require hazards identification.

☉ ChemG 1996-amendment 2011.

This product is not classified hazardous (no hazardous preparation) according to the Austrian chemical legislation of 1996- amendment 2011.

- ☉ VbF - Directive about combustible liquids (BGBl 1991/240)
This product is not classified as combustible liquid acc. VbF.

Germany:

- ☉ Classification in water hazard classes according VwVwS dated 17.05.1999/annex 4
Not water hazardous

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16 Other information

The information provided on this SDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship. The information given is designed only as a guidance for safe handling.

Since unknown risk potentials can never be completely ruled out, the product should be handled with the usual care when dealing with chemicals and only for the uses listed in Section 1.

- ☉ Relevant R-phrases

Not applicable.

- ☉ Relevant H-phrases

Not applicable.

- ☉ Relevant P-phrases

P 280

Wear suitable protective clothing/gloves and eye/face protection.

P301 + P330 + P331

IF SWALLOWED: wash mouth with water provided that person is conscious; do not induce vomiting.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P309 + P310

IF exposed or if you feel unwell: Call POISON CENTER or doctor/physician immediately.

- ☉ Relevant hazard classification

Not applicable

- ☉ Edition

N° 3 replaces previous version

- ☉ Written by

WAPOTEC GmbH

- ☉ Short cut

n. t. not tested

n. a. not applicable

PBT persistent, bio-accumulative, toxic

vPvB high persistent, high bio-accumulative

ECHA European Chemicals Agency (<http://www.echa.eu>)