

1 Identification of the substance/mixture and the company

Product identifier	HydroQuant[®] reagent CI-3
Use of substance	Reagent solution for the determination of chlorine/ozone REACH: This product is a preparation. For commercial users only.
Supplier	WAPOTEC GmbH Carola-Blome-Str. 7 A-5020 Salzburg Tel: +43 662 434342-0 Fax: +43 662 434342-3
Contact	Mr. G. Weiss Email: office@wapotec.at
Emergency phone	+43 662 43 43 42-0 Office hours: MO - TH: 8.00 - 16.00 FR: 8.00 - 12.00

2 Hazards identification

 GHS classification

Pursuant to the EU legislation this preparation is classified as non-hazardous.

3 Composition/information on ingredients

 **Chemical characterization:** Aqueous solution

 **Hazardous ingredients (GHS classification)**

Chemical name

CAS N°	EC N°	INDEX N°	Classification
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Voluntary statements:

Potassium iodide < 20%

CAS 7681-11-0

EC-Nr. 231-659-4

4 First-aid measures

4.1 Description of first aid measures

- ☉ **After inhalation:** Fresh air. Consult a doctor immediately.
- ☉ **After skin contact:** Wash off with plenty of water. Remove contaminated clothing immediately. Contact a doctor immediately.
- ☉ **After eye contact:** Wash out carefully with plenty of water with the eyelid open, for at least 10 minutes. Consult an ophthalmologist immediately.
- ☉ **After swallowing** Make victim drink plenty of water (400-500ml). Avoid vomiting. Do not try to neutralize. Contact a doctor immediately.

4.2 **Most important symptoms and effects, both acute and delayed after swallowing**
No further relevant information available.

4.3 **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.



5 Fire-fighting measures

5.1 Extinguishing media:

☉ Suitable extinguishing media:

Take extinguishing measures suitable for the environment.

5.2 Special hazards arising from the substance or mixture

Non-combustible. If exposed to fire, hazardous vapours may form.

5.3 Special protective equipment for fire-fighting:

Use self-contained respiratory protection. In order to avoid contact with the skin, keep a safety distance or wear suitable protective clothing.

☉ Additional information:

Prevent water for fire-fighting from entering surface waters or ground water.

Use water jet to make gases/vapours condense.



6 Accidental release measures

6.1 Person-related safety precautions:

Do not inhale gases/aerosols. Avoid contact with substance. Ensure supply of fresh air.

6.2 Environmental precautions:

Prevent substance from entering the sewage system.

6.3 Measures for cleaning/collecting:

Collect mechanically with liquid binding and neutralizing material. Forward to disposal. Final cleaning.

6.4 Reference to other sections:

Protective measures see point 8.

Recycling see point 13.



7 Handling and storage

7.1 Precautions for safe handling

Information for safe handling. Observe advice on the label or analysis specification.

7.2 Conditions for safe handling including any incompatibilities



Storage

Additional information on storage conditions: Tightly closed.



8 Exposure controls and personal protection

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Limitation and monitoring of exposure



General protective and hygienic measures

Protective clothing shall be selected specifically for the work place and in dependence of the concentration and quantity of the hazardous substance. The chemical resistance of the protective equipment should be ascertained with the respective supplier.



Respiratory protection:

Required when vapours/aerosols are generated. Recommended filter type: Filter E



Hand protection:

Full contact:

Glove material: nitrile rubber

Glove thickness: 0.11 mm

Break-through time: >480 min

Splash contact:

Glove material: nitrile rubber

Glove thickness: 0.11 mm

Break-through time: >480 min

The protective gloves to be used must comply with the specifications of the EC Directive 89/686/EEC and the resultant Standard EN 374.

The above mentioned break-through times were determined by KCL in laboratory tests acc. to EN 374 with material samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us, as well as to the purpose specified by us. When dissolving the substance in or mixing it with other substances and under conditions deviating from those stated in EN 374, contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

🕒 **Eye protection:**

Tightly closing protective goggles.

🕒 **Protective measures:**

Acid-proof protective clothing.

🕒 **Hygiene:**

Change contaminated clothing immediately and put it in water.

Apply skin-protective cream; wash hands and face after working with the substance.



9 Physical and chemical properties

🕒 Form:	liquid
🕒 Colour:	colourless
🕒 Odour:	odourless
🕒 pH value:	Approx. 6.9
🕒 Viscosity, dynamic:	not available
🕒 Melting point:	not available
🕒 Boiling point:	appr. 105°C
🕒 Ignition temperature	not available
🕒 Flash point	not available
🕒 Inflammability:	not available
🕒 Lower explosion limit:	not available
🕒 Upper explosion limit:	not available
🕒 Oxidizing properties:	not available
🕒 Vapour pressure:	not available
🕒 Relative vapour density:	not available
🕒 Density	1.6 g/cm ³ at 20°C
🕒 Solubility	not available
🕒 Solubility in water	soluble at 20°C
🕒 Distribution coefficient: N-octanol/water:	not available
🕒 Evaporation speed:	not available



10 Stability and reactivity

10.1 🕒 **Reactivity:** No information available

10.2 🕒 **Chemical stability:** No information available

- 10.3 **Possible dangerous reactions:** No information available.
- 10.4 **Conditions to be avoided:** Sensitive to light.
- 10.5 **Incompatible materials:** No information available.
- 10.6 **Hazardous decomposition products:** No information available..

11 Toxicological information

11.1 **Acute inhalative toxicity:**

LC50 (rat)

Dose: 2779mg/kg (related to pure substance) (IUCLID)

Irritation of the skin:

None.

Irritation of the eyes:

Rabbit, result: modest irritation (related to pure substance) (IUCLID)

Genetic toxicity in vitro:

Ames test

Salmonella typhimurium

Result: negative

Related to pure substance (IUCLID)

Teratogenicity:

Does not show any foetus-damaging effect in animal studies (related to pure substance, IUCLID).

Additional information:

Hazardous properties cannot be excluded, but are very unlikely when substance is used acc. to specifications.

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

Other advice: Sensitizing in proned persons possible

Additional information:

The usual precautions in handling chemicals have to be taken.

12 Ecological information

12.1 **Toxicity:**

Ecotoxicity: Toxic for fish LC50

Species: *Oncorhynchus mykiss* (rainbow trout), dose: 8960mg/l, exposure time: 94 h (related to pure substance, IUCLID).

12.2 **Persistence and degradability:**

No data available.

12.3 **Bioaccumulation potential:**

No data available.

12.4 **Mobility in the soil:**

No data available.

12.5 **Results of PBT and vPvB assessment:**

No data available.

12.6 **Other adverse effects:**

☉ **Further ecologic data**

Acute inhalative toxicity:

Do not allow to enter waters, waste water or soil.

☉ **Biological effects:**

Harmful effect due to pH shift.

☉ **Further ecological information: Non.**

13 Disposal considerations

13.1 ☉ **Waste treatment methods:**

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

☉ **Packaging:**

Packing must be disposed of in compliance with the country-specific regulations or must be passed on to a packaging return system. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

14 Transport information

This product is not subject to transport regulations neither land (ADR/RID), see (IMDG) nor air (IATA) transport.

14.1 **UN-Number**

Not applicable.

14.2 ☉ **UN proper shipping name**

Not required.

14.3 ☉ **Transport hazard class**

Not applicable.

14.4 ☉ **Packing group**

Not applicable.

14.5 **Environmental risks**

None.

14.6 **Handling precautions for users**

None.

14.7 **Transportation in bulk according to Annex II of MARPOL73/78 and IBC.**

Not applicable.

ADR/RID

15 Regulatory information

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

GHS labelling, hazard pictograms

No hazardous substance/preparation as defined by GHS

CAS N°: 7681-11-0

Signal word:

Hazard warnings:

Safety signs and symbols:

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

P301+P330+P331:

When swallowed: Rinse mouth. Do not induce vomiting.

P305+P351+P358:

After eye contact: Wash out carefully with plenty of water for some minutes. Remove contact lenses, if possible. Continue washing eyes.

P309+P311:

In case of exposure or nausea: Seek medical advice or contact a poison's information centre immediately.

Labelling according to EC directives:

Pursuant to EC directives or the respective national legal provisions, the product must not be labelled.

EC N° 231-659-4

Storage class: VCI 10 – 13 other liquids and solids

16 Other information

None.

The information is based on the present state of our knowledge. It characterizes the

product with regards to the appropriate safety precautions.

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