

**Material Safety Data Sheet (MSDS)**  
according to 91/155/EWG

prepared: September 2007

printed: 08.11.2007

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**1. Identification of the Preparation and Company:**

Trade name:                   **HydroQuant® Reagent Calcheck**  
Distributor:                   WAPOTEC Verfahrenstechniken zur  
  Wasseraufbereitung GmbH  
  Carola-Blome-St. 7  
  5020 Salzburg/Austria  
  
  phone: ++43 / 662 / 434342  
  fax:     ++43 / 662 / 434342-3

**2. Composition/Information on Ingredients**

**Description:** Preparation contains anorganic and organic compounds.  
**Dangerous components:** Void

**3. Hazards Identification:**

**Hazard designation:** Void

**Information pertaining to particular dangers for man and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification Guideline for Preparations of the EU" in the latest valid version.

**Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

**4. First Aid Measures:**

**General information:** No special measures required.

**After inhalation:** Supply fresh air.

**After skin contact:** Instantly wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

**The following symptoms may occur:** After swallowing of large amounts: sickness, vomiting.

**5. Fire-fighting Measures:**

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Protective equipment:** Wear self-contained breathing apparatus. Wear full protective suit.

**Additional information:** Ambient fire may liberate hazardous vapours. Collect contaminated fire fighting water separately. It must not enter drains. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**6. Accidental Release Measures:**

**Person-related safety precautions:**

Use breathing protection against the effects of fumes/dust/aerosol.

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**Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.

**Measures for cleaning/collecting:**

Collect mechanically. Ensure adequate ventilation. Dispose off contaminated material as waste according to item 13.

**Additional information:** No dangerous materials are released.

**7. Handling and Storage:**

**Handling:**

**Information for Safe Handling:**

No special measures required.

**Information about protection against explosions and fires:**

Protect from heat.

**Storage:**

**Requirements to be met by storerooms and containers:** Store in cool location.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Protect from heat and direct sunlight. Store under dry conditions. Protect from humidity and keep away from water.

**Storage class:** Not required.

**8. Exposure Controls and Personal Protection:**

**Additional information about design of technical systems:**

No further data; see item 7.

**Components with limit values that require monitoring at the workplace:**

1330-43-4 disodium tetraborate, anhydrous

OES (Great Britain) Long-term value: 1 mg/m<sup>3</sup>

**Additional information:**

The lists that were valid during the compilation were used as basis.

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures should be adhered to general rules for handling chemicals. Wash hands during breaks and at the end of work.

**Breathing equipment:**

Use breathing protection against the effects of fumes/dust/aerosol.

**Protection of hands:** Preventive skin protection by use of skin-protecting agents is recommended. No chemical-protective gloves required.

**Eye protection:** Safety glasses.

**Body protection:** Protective work clothing.

**9. Physical and Chemical Properties:**

Form:	Tablets
Colour:	Pink
Odour:	Odourless

Melting point/Melting range: Not determined

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Boiling point/Boiling range:	300 °C
Flash point:	Not applicable
Self-inflammability:	Product is not selfigniting.
Danger of explosion:	Product is not explosive.
Vapour pressure at 20 °C:	2.7 hPa
Density:	Not determined
Solubility in/Miscibility with Water:	Soluble
pH-value (9 g/l) at 20 °C:	8.5
Solvent content:	
Organic solvents:	0.0 %
Solids content:	100 %

**10. Stability and Reactivity:**

**Thermal decomposition / conditions to be avoided:** Strong heating.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of decomposition:** No dangerous decomposition products known.

**11. Toxicological Information:**

**Acute toxicity:** Quantitative data on the toxicity of the preparation are not available.

**LD/LC50 values that are relevant for classification:**

**1330-43-4 disodium tetraborate, anhydrous**

Oral	LD50	709 mg/kg (human)
		2660 mg/kg (rat)
	LC50	807 mg/l (fish)

**10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H3BO3 calculated on the dry weight.**

Oral	LD50	2660 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** Irritant effect.

**Sensitization:** No sensitising effect known.

**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The usual precautionary measures should be adhered to general rules for handling chemicals.

**12. Ecological Information:**

**Information about elimination (persistence and degradability):**

**Other information:**

Methods for the determination of biodegradability are not applicable to inorganic substances.

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Quantitative data on the ecological effect of this product are not available.

**Behaviour in environmental systems:**

**10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H<sub>3</sub>BO<sub>3</sub> calculated on the dry weight.**

log P(o/w) 0.76 (25 °C) (.)

**Ecotoxicological effects:**

**Aquatic toxicity:**

**10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H<sub>3</sub>BO<sub>3</sub> calculated on the dry weight.**

EC50 133 mg/l/48h (Daphnia magna)

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

**13. Disposal Consideration:**

**Product:**

**Recommendation:** Must not be disposed off together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07, or 16 05 08

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

**14. Transport Information:**

Land transport ADR/RID (cross-border)

ADR/RID-GGVS/E Class: --

Maritime transport IMDG:

IMDG Class: --

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: --

Transport/Additional information: Not dangerous according to the above specifications.

**15. Regulatory Information:**

**Designation according to EC guidelines:**

Observe normal safety regulations when handling chemicals.

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

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**16. Other Information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

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