



Material Safety Data Sheet According to 91/155 EEC

Printing date 08.04.2005

Reviewed on 08.04.2005

* 1 Identification of substance:

- **Product details:** Reagent for water analysis
- **Product name:** Calcheck
- **Catalog number:** 00515659, 515650, 515651, 515653(0)
- **Supplier:**
Tintometer GmbH
Schleefstraße 8a-12
D - 44287 Dortmund
Made in Germany
- **Informing department:** Department Laboratory
- **Emergency information:**
Poison Center Berlin, Germany
phone: +49(0)30 19240

phone: +49(0)231 94510-0

* 2 Composition/Data on components:

- **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.

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EEC

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Product name: Calcheck

(Contd. of page 1)

- **Additional information**

- Ambient fire may liberate hazardous vapours.

- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

- Collect contaminated fire fighting water separately. It must not enter drains.

* 6 Accidental release measures

- **Person-related safety precautions:** Use breathing protection against the effects of fumes/dust/aerosol.

- **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 of 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:**

- Store under dry conditions.

- Protect from heat and direct sunlight.

- 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 ³

- **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 the 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

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC

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(Contd. of page 2)

· Odour:	Odourless
· Melting point/Melting range:	Not determined
· 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:	100.0 %

* 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)
	LC 50	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 sensitizing 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:** Quantitative data on the ecological effect of this product are not available.

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC

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Product name: Calcheck

(Contd. of page 3)

· Behaviour in environmental systems:	
10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H3BO3 calculated on the dry weight	
log P(o/w)	0.76 (25°C) (.)
· Ecotoxicological effects:	
· Acquatic toxicity:	
10043-35-3 boric acid, crude natural, containing not more than 85 per cent of H3BO3 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 considerations

· Product:	
· Recommendation Must not be disposed of 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 the normal safety regulations when handling chemicals	
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).	

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.

- **Department issuing data specification sheet:** Technical Department
- *** Data compared to the previous version altered.**