

Material Data Safety Sheet

According to (EG) Nr. 1907/2006 (REACH)

Updated:12.04.2011

Boric acid, Art. Nr. 30044

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : **Boric acid**

Product Number : 30044

Company:

Gatt-Koller GmbH

Swarovskistrasse 74

A-6067 Absam

Phone: 0043-5223-44216-0

Fax: 0043-5223-43216

Emergency Phone: 0049-551-19240

2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal Word DANGER

Hazard statement(s)

H360FD Suspected of damaging fertility. May damage the unborn child

Precautionary statement(s)

P201 Obtain special instructions before use.

P308 IF exposed or concerned:

P313 Get medical advice/attention.

P501 Dispose of contents/ container to an approved waste disposal plant.

(67/548/EWG oder 1999/45/EG)

EC-classification: This product is not included in the dangerous substances index with its corresponding EC index number, so it has been classified according to the annex VI of the 2001/59/EC directive.

Symbol:

R-phrases: ---

3. Composition/information on ingredients

Identification and amount of the components:

Synonyms: Ortoboric acid

CAS: 10043-35-3

Molecular weight: 61.84

EC number: 233-139-2

Formula: H₃BO₃

4. First aid measures

After inhalation: Fresh air.

After skin contact: wash off with plenty of water.

After ingestion: (large amounts): consult doctor if feeling unwell.

After eye contact: rinse out with water.

5. Fire-fighting measures

Suitable extinguishing media: To suit environment.

Special risks: Non-combustible

Special protective equipment for fire fighting: Do not stay in dangerous zone without self-contained breathing apparatus.

Further information: Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures: Avoid generation of dusts; do not inhale dusts.

Environmental precautions: Do not allow to enter sewerage system.

Procedures for cleaning / absorption: Take up dry. Forward for disposal. Clean up.

7. Handling and storage

Handling: No further requirements.

Storage: Store tightly closed and dry. Storage temperature: no restrictions.

8. Exposure controls/personal protection

Exposure limit values: (MAK, Germany):

Exposure controls:

Occupational exposure controls: The personal protective equipment must be selected according to the working place, based on the concentration and amount of the dangerous substance. The supplier should indicate the stability of the personal protective equipment to chemical reagents.

Respiratory protection: required when dusts are generated.

Hand protection: required

Eye protection: required

Industrial hygiene: Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

General information:

Form: solid

Colour: white

Odour: odourless

Important health, safety and environmental information:

pH value: (33 g/l H₂O, 20 °C) 3,8 - 4,8

Boiling temperature: ---

Flash point: ---

Explosion limits (low): ---

Explosion limits (high): ---

Vapour pressure: (20 °C) 2,7 hPa

Density (20 °C): ---

Solubility in water: (21 °C): 50 g/l

Partition coefficient n-octanol/water: log P(o/w) (25 °C): 0,757 (experimentally)

Viscosity: ---

Refractive index: ---

Melting temperature: 185 °C (decomposes)

Ignition temperature: ---

10. Stability and reactivity

Conditions to be avoided: Strong heating.

Substances to be avoided: anhydrous of acetic acid (heat).

Hazardous decomposition products: No information available.

11. Toxicological information

Acute toxicity:

LD₅₀(oral, rat): 2660 mg/kg

Specific symptoms in animal studies:

Eye irritation test (mammal): Slight irritations.

Skin irritation test (rabbit): Slight irritations.

Subacute to chronic toxicity:

Carcinogenicity: NTP evaluation for carcinogenicity: Noncarcinogenic in animal experiments.

Mutagenicity: Not mutagenic in the acute test.

Teratogenicity:

Sensibilization test (Guinea pig): no sensitization.

Further toxicological information:

After skin contact: Slight irritations.

After eye contact: Slight irritations.

After ingestion:

Possible symptoms: nausea, vomiting, decomposition.

After absorption of large quantities: excitation, spasms, fatigue, ataxia (impaired locomotor coordination), drop in body temperature.

Further information:

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects:

Fish toxicity: *Gambusia affinis* CL₅₀: 5600 mg/l /96h.

Daphnia toxicity: *Daphnia magna* EC₅₀: 133 mg/l /48h.

Algal toxicity: *Desmodesmus subspicatus* IC₁₀: 24 mg/l /96h. (sodium salt).

Bacterial toxicity: Ps. putida EC₁₀: 1580 mg/l /30min (sodium salt).

Mobility: log P(o/w) (25 °C): 0,757 (experimentally).

Bioaccumulative potential: Low probability of bioaccumulation (log P(o/w) < 1).

Persistence and degradability: Methods for determination of biodegradability can not be applied to inorganic substances.

Further ecologic data:

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

13. Disposal considerations

Product: There are no uniform EU Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EU member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Label elements



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Symbol:

R-phrases: ---

S-phrases: ---

EC-Index-No: ---

German regulations

Water pollution class 1 (slightly polluting substance) VwVwS Anh. 2 KennNr. 315

Storage class VCI 10-13

16. Other information

Date: 03/01/2007

The information supplied in this data sheet, is based on the present state of our knowledge. The purpose of this information, is only to describe the security measures to follow in the handling of the product.

Therefore it does not represent a guarantee about the properties of the product.

Gatt-Koller GmbH

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