

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Tube 25 ml, 90x25 mm, Boric-Acid  
CAS No: 10043-35-3  
Index No: 005-007-00-2  
EC No: 233-139-2

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/mixture**

Microbiological urine analysis

**1.3. Details of the supplier of the safety data sheet**

Company name: SARSTEDT AG & Co.  
Street: Sarstedtstraße 1  
Place: D-51588 Nümbrecht  
Post-office box: 1220  
D-51582 Nümbrecht  
Telephone: +49 (0)2293 / 305 - 0  
Telefax: +49 (0)2293 / 305 - 2470  
e-mail: info@sarstedt.com  
Contact person: Dr. Dagmar Flach  
Telephone: +49 (0)2293 / 305 - 4500  
Jochen Hoffmann  
e-mail: sicherheitsdatenblatt@sarstedt.com  
Internet: www.sarstedt.com  
Responsible Department: R & D Center

**1.4. Emergency telephone number:**

Poison Center in Bonn (Germany): +49 (0)228 / 19240

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Indications of danger: R2 - Repr. Cat. 2  
R phrases:  
May impair fertility.  
May cause harm to the unborn child.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard categories:  
Reproductive toxicity: Repr. 1B  
Hazard Statements:  
May damage fertility. May damage the unborn child.

**2.2. Label elements**

**Hazardous components which must be listed on the label**

Boric acid

Signal word: Danger  
Pictograms: GHS08



**Hazard statements**

H360FD May damage fertility. May damage the unborn child.

**Precautionary statements**

P201 Obtain special instructions before use.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

**Chemical characterization**

The Tube contains boric acid (< 310 mg).

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
233-139-2	Boric acid	100 %
10043-35-3	Repr. Cat. 2 R60-61	
005-007-00-2	Repr. 1B; H360FD	

Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

**After inhalation**

Provide fresh air. Medical treatment necessary.

**After contact with skin**

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

**After contact with eyes**

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink water (max. 2 glasses). Consult physician.

**4.2. Most important symptoms and effects, both acute and delayed**

Drop in temperature, excitation, spasm, diarrhea, sickness, vomiting, tiredness, ataxia (disturbed coordination of movements).

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

none

**5.2. Special hazards arising from the substance or mixture**

Non-flammable.

Surrounding fire may cause hazardous vapour.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Do not breathe dust. Avoid contact with substance. Call an expert. Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Avoid generation of dust. Take up carefully when dry. Dispose of waste according to applicable legislation. Re-clean.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

See also section 10.

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid generation of dust. Do not breathe dust.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Avoid contact with substance. Store at room temperature. Store in a dry place. Store in a place accessible by authorized persons only.

**Advice on storage compatibility**

No special measures are necessary.

**7.3. Specific end use(s)**

Microbiological urine analysis

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.2. Exposure controls**



**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

Wear eye protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Required in case of formation of dust. Recommended filter type: filter P 2

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: solid  
Colour: white  
Odour: odourless

**Test method**

pH-Value: not determined

**Changes in the physical state**

Melting point: >1000 °C OECD 102

Initial boiling point and boiling range: not determined

Flash point: not applicable

**Flammability**

Solid: not determined

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: Non-flammable.

**Auto-ignition temperature**

Solid: not determined

Gas: not applicable

Decomposition temperature: 184,9 °C

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**Oxidizing properties**

Not oxidizing.

Vapour pressure:

<0,0000001 hPa OECD 104

Density (at 23 °C):

1,489 g/cm<sup>3</sup> OECD 109

Bulk density:

ca. 400 - 600 kg/m<sup>3</sup>

Water solubility:

49,2 g/L OECD 105

(at 20 °C)

**Solubility in other solvents**

not determined

Partition coefficient:

-1,09

Vapour density:

not determined

Evaporation rate:

not determined

**9.2. Other information**

Solid content:

not determined

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

See section 10.3.

**10.2. Chemical stability**

Hygroscopic.

**10.3. Possibility of hazardous reactions**

Exothermic reactions with:

Acetic anhydride

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

No data available

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
10043-35-3	Boric acid	oral	LD50	>2660 mg/kg	Rat	OECD 401
		dermal	LD50	>2000 mg/kg	Rat	(ECHA)

**Irritation and corrosivity**

No information available.

**Sensitising effects**

No information available.

**STOT-single exposure**

No information available.

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**Severe effects after repeated or prolonged exposure**

No information available.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May damage the unborn child. May damage fertility.

**Aspiration hazard**

No information available.

**Additional information on tests**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

**Further information**

After resorbing big quantities:

Drop in temperature, excitation, spasm, diarrhea, sickness, vomiting, tiredness, ataxia (disturbed coordination of movements).

The usual precautions are to be adhered to when handling chemicals.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Aquatic toxicity: The classification criteria for this hazard class are not met by definition.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
10043-35-3	Boric acid					
	Acute fish toxicity	LC50	50 - 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	(ECOTOX Database)
	Acute crustacea toxicity	EC50	133 mg/l	48 h	Daphnia magna (Big water flea)	(ECOTOX Database)

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

Bioaccumulation is not to be expected.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
10043-35-3	Boric acid	-1,09

**12.4. Mobility in soil**

No information available.

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

not applicable

**12.6. Other adverse effects**

No information available.

**Further information**

Discharge into the environment must be avoided.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Dispose of waste according to applicable legislation.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.

**Inland waterways transport (ADN)**

**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.

**Marine transport (IMDG)**

**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.

**Air transport (ICAO)**

**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

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

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

**Additional information**

Substances of Very High Concern (SVHC): This product contains substances of very high concern according to REACH guideline EC No. 1907/2006 Art. 57 above the legal concentration limit of  $\geq 0.1$  % (w/w).

Instructions of BG RCI (Germany):

M039 Damage to the unborn child - protection at the workplace -

M050 handling of hazardous materials

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

**SECTION 16: Other information**

**Changes**

General revision. The telephone and fax numbers of the company have been updated.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

SVHC: Substances of Very High Concern

**Relevant R-phrases (Number and full text)**

- 60 May impair fertility.  
61 May cause harm to the unborn child.

**Relevant H- and EUH-phrases (Number and full text)**

- H360FD May damage fertility. May damage the unborn child.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.