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, 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
Tube 25 ml, 90x25 mm, Boric-Acid

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

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

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.
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

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

Revision No: 2 Revision date: 21.04.2015
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
Tube 25 ml, 90x25 mm, Boric-Acid
Art. no. 51.9923.820

Oxidizing properties
Not oxidizing.

Vapour pressure: <0,0000001 hPa OECD 104
Density (at 23 °C): 1,489 g/cm³ OECD 109
Bulk density: ca. 400 - 600 kg/m³ OECD 105
Water solubility: 49.2 g/L OECD 105

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>10043-35-3</td>
<td>Boric acid</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2660 mg/kg</td>
<td>Rat</td>
<td>OECD 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>Rat</td>
<td>(ECHA)</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
No information available.

Sensitising effects
No information available.

STOT-single exposure
No information available.
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.

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

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>10043-35-3</td>
<td>Boric acid</td>
<td>-1,09</td>
</tr>
</tbody>
</table>

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

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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 >= 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.