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	<b>VACUETTE® Urine CCM Tubes</b>	

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- **Product Identifiers**  
Product name: VACUETTE® Urine CCM Tubes
- **Relevant identified uses:**  
Production of diagnostic test tubes
- **Details of the supplier of the safety data sheet:**

**Company:**

Greiner Bio-One GmbH  
 Bad Haller Strasse 32  
 4550 Kremsmünster  
 Austria  
 Tel: (+43) 7583 6791-1186  
 Fax: (+43) 7583 6791-1114  
 Email: office@at.gbo.com

- **Emergency Telephone Number: +43 1 406 43 43**

## SECTION 2: HAZARDS IDENTIFICATION

- **Classification of the substance or mixture:**

Classification according to Regulation (EG) Nr. 1272/2008

Reproductive toxicity	Category 1B	May damage fertility, may damage the unborn child
Eye irritation	Category 2	Causes serious eye irritation

H360FD: May damage fertility, may damage the unborn child

H319: Causes serious eye irritation

- **Label elements:**

Labelling according Regulation (EC) No 1272/2008

Pictogram:





Signal word:

Danger

Hazard statements:

H360FD: May damage fertility, may damage the unborn child

H319: Causes serious eye irritation

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Precautionary statements:

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P280: Wear protective gloves/protective clothing/eye protection/face protection
  
- P305+P351+P338: if in eyes: rinse cautiously with water for several minutes, remove contact lenses if present and easy to do, continue rinsing
- P308+P313: if exposed or concerned: get medical advice/attention
  
- P405: Store locked up
  
- P501: Dispose of contents/container in accordance with local regulation

- **Other hazards:**  
none

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

- **Description:** VACUETTE® PET Tube (Polyethyleneterephthalate) with CCM-powder HC2070
- **Substances:** Mixture containing hazardous components



Name	CAS-No.	EG-No.	m%	Classification
Sodium tetraborate	1303-96-4	215-540-4	<35	Repr. 1B; H360FD Eye irrit.. 2; H 319
Boric acid	10043-35-3	233-139-2	<30	Repr. 1B; H360FD

Boric acid is on Candidate List of Substances of Very High Concern (SVHC) for Authorization according Regulation (EG) No. 1907/2006 (Article 57c)

- **Quantity of substances:** < 1% (mass %)
- **Exposure limits:** N/A

**SECTION 4: FIRST AID MEASURES**

- **Description of first aid measures:**
  - **Skin:** Wash thoroughly with soap and plenty of water, remove contaminated clothing and shoes and wash before reuse; if skin irritation persists consult a physician
  - **Eyes:** rinse thoroughly with plenty of water for at least 10 minutes, remove contact lenses if present and easy to do, continue rinsing, get medical advice
  - **Inhalation:** Remove to fresh air. If breathing is difficult, give artificial respiration, get medical attention
  - **Ingestion:** Never give anything by mouth to an unconscious person; rinse mouth with water; do not trigger vomiting without medical order; if discomfort persists consult a physician.
  
- **Most important symptoms and effects, both acute and delayed:**  
See section 2 and 11

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- **Indication of any immediate medical attention and special treatment needed:**  
No data available

## SECTION 5: FIRE-FIGHTING MEASURES



- **Extinguishing media:**  
Suitable extinguishing media:  
Carbon dioxide, dry chemical, water spray or alcohol-resistant foam
- **Special hazards arising from the substance or mixture**  
Fire gases: Boran/Boroxide  
In case of fire harmful gases and decomposition products can be evolved! Do not breathe fire gases!
- **Advice for firefighters:**  
Firefighting measures should comply with any environmental aspects; wear self-contained breathing apparatus for firefighting if necessary; condense released fumes with water spray
- **Further information:**  
No data available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures:**  
Use personal protective equipment (see section 8); ensure appropriate exhaust ventilation; provide adequate supply with fresh air; do not breathe fumes, vapors, mist or spray; avoid contact with eyes and skin
- **Environmental precautions:**  
Prevent further leakage or spillage if safe to do so; do not let product enter drains; discharge into environment must be avoided
- **Methods and material for containment and for cleaning up:**  
Pick up and arrange disposal without creating dust, sweep up and shovel, keep in suitable, closed containers for disposal.
- **Reference for other sections**  
Hazardous fire gases see section 5  
Personal protective equipment see section 8  
Incompatible materials see section 10  
Disposal see section 13

## SECTION 7: HANDLING AND STORAGE

- **Precaution for safe handling:**  
Take off contaminated clothing and shoes and clean before reuse; wash hands and face thoroughly before breaks and at the end of a working day, apply precautionary skin protection.  
  
Avoid contact with eyes and skin as well as formation of fume, vapors, mist and spray; Do not breathe fume, vapors, mist and spray; ensure appropriate exhaust ventilation.  
  
Information regarding personal protective equipment see section 8, concerning protective measure see section 2.

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- **Conditions for safe storage, including any incompatibilities:**  
Store in a cool, dry and proper ventilated place; Keep container tightly closed.
- **Specific end use(s):**  
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Control parameters**
  - **Mixture contains no components with workplace control parameters**
- **Exposure controls**
  - **Appropriate engineering controls:**  
Handle in accordance with good industrial hygiene (see section 7) and safety practice; wash hands before breaks and at the end of a working day. Ventilation and aspiration, technical measures and the application of proper procedures are preferential to the use of personal protective equipment.
  - **Personal protective equipment:**

**Eye/face protection:**  
Safety glasses with side-shields in accordance with EN 166; use equipment tested and approved under appropriate standards, e.g. EN 166

**Skin protection:**  
Handle with gloves; gloves must be inspected prior to use; use proper gloves removal technique (without touching glove's outer surface) to avoid skin contact; dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice; wash and dry hands. Selected protective gloves have to satisfy the specification on EN 374 and Directive 89/686/EEC based on it.  
Indication for a material's range:  
Material: Nitrile rubber  
Minimum layer thickness: >0,11 mm  
Break through time: >480 min

**Body protection:**  
Impervious clothing or complete suit protecting against chemicals; Type of protective equipment must be selected according to concentration and amount of dangerous substance at the specific workplace.

**Respiratory Protection:**  
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with P3 (EN 143) respirator cartridges as a backup to engineering controls



**Hygiene measures:**  
Do not eat, drink or smoke when using the product; Wash hands thoroughly after use, before breaks and at the end of a working day, apply precautionary skin protection; Keep away from food, drink and animal feedstuffs; Take off contaminated clothing and shoes and clean before reuse.

**Control of environmental exposure:**  
Prevent further leakage or spillage if safe to do so; do not let product enter drains; discharge into the environment must be avoided.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties**

<b>Appearance:</b>	<b>Form:</b> solid
	<b>Color:</b> white
<b>Odor:</b>	odorless
<b>pH-Value:</b>	no data available

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<b>Melting point-/freezing point:</b>	no data available
<b>Initial boiling point and boiling range:</b>	no data available
<b>Flashpoint:</b>	no data available
<b>Evaporation rate:</b>	no data available
<b>Flammability:</b>	no data available
<b>Upper/lower flammability or explosive limits:</b>	no data available
<b>Vapor pressure:</b>	no data available
<b>Vapor density:</b>	no data available
<b>Relative density:</b>	no data available
<b>Water solubility:</b>	no data available
<b>Partition coefficient n-octanol/water:</b>	no data available
<b>Auto ignition temperature:</b>	no data available
<b>Decomposition temperature:</b>	no data available
<b>Viscosity:</b>	no data available
<b>Explosive properties:</b>	no data available
<b>Oxidizing properties:</b>	no data available

## SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:**  
No data available,
- **Chemical stability:**  
Stable under recommended storage conditions
- **Possibility of hazardous reactions**  
No data available
- **Conditions to avoid**  
No data available
- **Incompatible materials**  
Potassium, Acid anhydrides
- **Hazardous decomposition products:**
  - **In event of fire:** Borane/Boroxides, Sodium oxides (see section 5).
  - **Other decomposition products:** no data available

## SECTION 11: TOXICOLOGICAL INFORMATION

- **Information on toxicological effects**
  - **Acute Toxicity**



<b>Sodium tetraborate</b>	<b>LD<sub>50</sub> rat oral: 2400 - 2600 mg/kg</b>
	<b>LD<sub>50</sub> rabbit dermal: &gt; 2000 mg/kg</b>
<b>Boric acid</b>	<b>LD<sub>50</sub> rat oral: 2660 mg/kg</b>

- **Skin corrosion/irritation:**

<b>Sodium tetraborate:</b>	skin rabbit: no skin irritation
<b>Boric acid:</b>	no data available

- **Serious eye damage / eye irritation:**

<b>Sodium tetraborate:</b>	eye rabbit: moderate eye irritation
<b>Boric acid:</b>	no data available

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- **Respiratory or skin sensitization:**

<b>Sodium tetraborate:</b>	Guinea pig: no skin sensitization
<b>Boric acid:</b>	no data available

- **Germ cell mutagenicity:** no data available
- **Carcinogenicity:** no data available
- **Reproductive toxicity:** fetotoxicity, presumed human reproductive toxicant
- **Specific target organ toxicity – single exposure:** no data available
- **Specific target organ toxicity – repeated exposure:** no data available
- **Aspiration hazard:** no data available
- **Additional i Information:**

Toxicity is reported for borate in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, and erythematous lesions in the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions and coma. Death has been reported to occur in infants from less than 5 g and in adults from 5 – 20 g.

Liver – irregularities – based on human evidence

## SECTION 12: ECOLOGICAL INFORMATION

- **Toxicity:**  
Data are related to the mentioned constituent:



**Boric acid:**

Toxicity to fish	LC <sub>50</sub> Ptychocheilus lucius	279 mg/l / 96 h
	LC <sub>0</sub> Lepomis macrochirus	>1021 mg/l / 96 h
Toxicity to daphnia	LC <sub>50</sub> Daphnia magna	53,2 mg/l / 21 d
	EC <sub>50</sub> Daphnia magna	133 mg/l / 48 d

**Sodium tetraborate:**

Toxicity to fish	NOEC Danio rerio	6,4 mg/l / 34 s
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- **Persistence and degradability:**  
The methods for determining the biological degradability are not applicable to inorganic substances
- **Bioaccumulative potential:**  
Due to the distribution coefficient n-octanol/water accumulation in organisms is not expected
- **Mobility in soil:** no data available
- **Results of PBT and vPvB assessment:**  
PBT/vPvB assessment is not available as chemical safety assessment has not been conducted
- **Other adverse effects:**
  - **Sodium tetraborate:** Harmful to aquatic life
  - **Boric acid:** no data available

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### SECTION 13: DISPOSAL CONSIDERATION

- **Waste treatment methods**
  - **Product**  
Dissolve or mix material with a combustible solvent and burn in an incinerator equipped with an after burner and scrubber. Offer surplus and non recyclable solution to a licensed disposal company
  - **Contaminated packaging**  
Dispose of as unused product

### SECTION 14: TRANSPORT INFORMATION

- **UN number:** None
- **UN proper shipping name:** Not dangerous goods
- **Transport hazards:** none
- **Packaging group:** none
- **Environmental hazards:** none
- **Special precaution for user:** No data available

### SECTION 15: REGULATORY INFORMATION

- **Safety, health and environmental regulation/legislation specific for substance or mixture**  
This safety data sheet complies with the requirements of Regulation (EC) no. 1907/2006
- **Authorisations and/or restrictions on use**
  - Sodium tetraborate  
REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)  
REACH – candidate List of Substances of Very High Concern for Authorization (Article 59)
  - Boric acid  
Candidate List of Substances of Very High Concern for Authorization (Article 57c)
- **Chemical safety assessment**  
For this product a chemical safety assessment was not carried out
- **Hazard Communication Standard (HCS) 29 CFR 1910.1200(g), rev. 2012**

### SECTION 16: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Greiner Bio-One nor any of its subcontractors or suppliers assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.