

## University of Oxford COSHH Assessment Form

Read the notes on completion before attempting to fill in this form. If insufficient space is available under any section, use a separate piece of paper and attach it to the form.

File ref: Boric Acid -  
COSHH  
Date: February 2016

**Department:** NDM,  
NDMRB

**Persons involved:** All NDMRB Laboratory Staff

**Location of work:**  
NDMRB Laboratories

**Description of procedure:** General lab reagent

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Boric Acid 10043-35-3	1Kg	Weekly	H360FD May damage fertility. May damage the unborn child.	Inhalation, ingestion, contact with skin and eyes.

**Could a less hazardous substance (or form of the substance) be used instead?** Yes/No

**Justify not using it:**

### What measures have you taken to control risk?

**Engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**PPE:** Safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

**Management measures:** Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Most important symptoms and effects, both acute and delayed:** Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhoea, abdominal cramps, and erythematous lesions on 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 grams and in adults from 5 to 20 grams. Liver - Irregularities - Based on Human Evidence

**Accidental release measures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

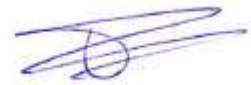
**Checks on control measures:**

<b>Is health surveillance required?</b> No	<b>Training requirements:</b> None
<p><b>Emergency procedures:</b></p> <p><b>General advice</b> Consult a physician. Show this safety data sheet to the doctor in attendance.</p> <p><b>If inhaled</b> If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.</p> <p><b>In case of skin contact</b> Wash off with soap and plenty of water. Consult a physician.</p> <p><b>In case of eye contact</b> Flush eyes with water as a precaution.</p> <p><b>If swallowed</b> Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p> <p><b>Fire fighting measures:</b> Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.</p> <p><b>Special hazards arising from the substance or mixture:</b> Borane/boron oxides</p> <p><b>Advice for Fire fighters:</b> Wear self-contained breathing apparatus where possible.</p> <p><b>Further information</b> No data available</p>	<p><b>Waste disposal:</b></p> <p>Contact Lab Manager or Safety Office in order to dispose of waste.</p>

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Name and position of assessor: Tiphaine Bouriez-Jones, Lab Manager

Signature:

A handwritten signature in blue ink, consisting of several overlapping horizontal strokes and a circular loop.

Name of supervisor (student work only):

Signature:

Name of head of department or nominee:

Signature: