

## 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: TMB -COSHH  
Date: October 2015

Department: NDM,  
NDMRB

Persons involved: All NDMRB Laboratory Staff

Location of work:  
NDMRB Laboratories

Description of procedure: ELISA Reagent

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Tetramethylbenzidine	Stock solution: 100mg TMB dissolved in 10ml of DMSO. Working solution: 100µl of TMB and 9.9 ml of 0.1M Sodium acetate	Weekly/ as necessary	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.	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:** Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**PPE:** Gloves, lab coat and safety glasses to be worn at all times

**Management measures:** Avoid contact with skin and eyes. Handle under nitrogen, protect from moisture. Store under nitrogen. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C Handle and store under inert gas. Product is sensitive to light and moisture.

**Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**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.

**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.

**Environmental precautions:** Do not let product enter drains.

### Checks on control measures:

LeV is visually checked regularly and air flow are inspected once a year as part of a servicing contract.

Is health surveillance required? No

Training requirements: None

**Emergency procedures:**

**General advice** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Firefighting measures:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>)  
Nature of decomposition products not known.  
Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

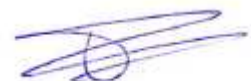
**Advice for Fire fighters:** Wear self-contained breathing apparatus if necessary.

Waste disposal:

**TMB must be disposed of via the Safety Office – contact your lab manager to arrange collection.**

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

Signature:



Name of supervisor (student work only):

Signature:

Name of head of department or nominee:

Signature: