

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: TDI-079-COSHH
Date: July 2015

Department: NDM, TDI Persons involved: All Laboratory Staff

Location of work: Laboratories

Description of procedure: Protein crosslinking

| Substances used | Quantities used | Frequency of use | Hazards identified | Exposure route |
|--|-----------------|------------------|------------------------|--|
| Dimethyl 3,3'-Dithiobispropionimidate CAS No: 38285-78-8 | <1g | Occasional | Causes skin irritation | Eyes, skin, mucous membranes and upper respiratory tract |

Could a less hazardous substance (or form of the substance) be used instead? 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 taking any breaks and at the end of the work day. Avoid contact with skin and eyes. Handle in fume hood.

PPE: Wear suitable protective gloves/eye protection/face protection. Wear lab coat. Handle in fume hood.

Management measures: Store at 2 - 8 °C. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage

Accidental release measures:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Do not let product enter drains. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Checks on control measures:

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

Flush eyes with water as a precaution.

If swallowed

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

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Waste disposal:

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Name and position of assessor: Simon Davis, Lab Technician

Signature:

Name of supervisor (student work only):

Signature:

Name of head of department or nominee:

Signature: