

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: DMF - 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
Dimethylformamide (DMF) CAS No: 68-12-2	Liquid form, stock bottle 1L @ 99% maximum 10ml used per procedure	Weekly/as necessary	H226 Flammable liquid and vapour. H312 + H332 Harmful in contact with skin or if inhaled H319 Causes serious eye irritation. H360D May damage the unborn child.	Inhalation and ingestion; contact with skin and eye

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: Use stock solution in a ducted chemical fume hood. Store in a locked flammable cupboard when not in use.

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

Management measures: Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Store in cool place. 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. Handle and store under inert gas

Most important symptoms and effects, both acute and delayed: intolerance for alcohol can occur up to 4 days after Dimethylformamide exposure. N, N Dimethylformamide is considered to be a potent liver toxin. Vomiting, Diarrhoea, Abdominal pain, 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 breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

Environmental precautions: Prevent further leakage or spillage if safe to do so. 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. Flammable cupboard are checked during safety inspections.

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 Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Firefighting measures: 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 (NOx)

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

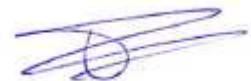
Further information Use water spray to cool unopened containers.

Waste disposal:

Disposal must be arranged with the Lab manager who will arrange for collection via the safety office

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: