

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-040-COSHH
Date: April 2015

Department: NDM,
TDI

Persons involved: All Laboratory Staff

Location of work:

Laboratories

Description of procedure: Mainly used as a mobile phase for MS analysis

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Acetonitrile with 0.1% Formic acid	A range of volumes	Daily/Weekly	Highly flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled.	Eyes, skin, mucous membranes and upper respiratory tract

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 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.

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

Management measures: 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.

Most important symptoms and effects, both acute and delayed: Treat as cyanide poisoning., Always have on hand a cyanide first-aid kit, together with proper instructions., The onset of symptoms is generally delayed pending conversion to cyanide., Headache, Dizziness, Rash, Cyanosis, excitement, depression, Drowsiness Kidney - Irregularities - Based on Human Evidence (Formic acid)

Accidental release measures: Use PPE; 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. Contain spillage. Do not let enter drains.

Checks on control measures:

Is health surveillance required? No

Training requirements: None

Emergency procedures:

General advice: Consult a physician, show MSDS

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..

Fire fighting measures: 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 Fire fighters: Wear self-contained breathing apparatus where possible

Other info: use water spray to cool other unopened containers

Waste disposal:

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

Name and position of assessor: Andrea Keepence-Keyte, TDI Lab Manager

Signature:

Name of supervisor (student work only):

Signature:

Name of head of department or nominee:

Signature: