

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-84-COSHH
Date: Sept 2017

Department: NDM, TDI Persons involved: All Laboratory Staff

Location of work: Laboratories

Description of procedure: lab reagent (chemistry), used in the formation of compounds

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Cyanogen bromide solution	Take 10 uL liquid from 5 M solution in acetonitrile and dilute about 20 times before use	Weekly	Highly flammable liquid and vapour. Fatal in contact with skin. Fatal if inhaled. Very toxic to aquatic life.	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 taking any breaks and at the end of the work day. Avoid contact with skin and eyes. Handle in fume hood. Have oxygen breathing apparatus available in the immediate area of use.

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

Management measures: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

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. Never allow product to get in contact with water during storage.

Accidental release measures:

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal. Arrange disposal with the university safety office

Checks on control measures:

Is health surveillance required? No

Training requirements: none

Emergency procedures:

IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

In case of fire: Use extinction.

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:

Signature:

Name of supervisor (student work only):

Signature:

Name of head of department or nominee:

Signature: