

## 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:  
Trifluoroacetic acid -  
COSHH  
Date: October 2015

**Department:** NDM,  
NDMRB

**Persons involved:** All NDMRB Laboratory Staff

**Location of work:**  
NDMRB Laboratories

**Description of procedure:** Protein Purification Reagent

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Trifluoroacetic acid (TFA)	Liquid form 97% 1L bottle in use 0.1%	Weekly/ as necessary	H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled. H412 Harmful to aquatic life with long lasting effects.	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. Avoid inhalation of vapour or mist. 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:** Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and oedema of the larynx, spasm, inflammation and oedema of the bronchi, pneumonitis, pulmonary oedema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting Liver - Irregularities - Based on Human Evidence

**Accidental release measures:** Use Personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Methods and materials for containment and cleaning up** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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**Checks on control measures:**

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

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**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** Take off contaminated clothing and shoes immediately. 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:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides, hydrogen fluorides

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

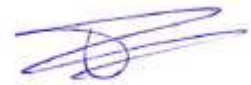
Waste disposal:

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

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

Signature:

A handwritten signature in blue ink, consisting of several overlapping horizontal strokes and a circular loop.

Name of supervisor (student work only):

Signature:

Name of head of department or nominee:

Signature: