

## 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: Acetic Acid -  
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
Acetic Acid CAS no 64-19-7	Acetic Acid stock Liquid form 99.5% In use 5% in 500ml destain buffer	Weekly/as necessary	H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician.	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:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Use in a fume hood. 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.

**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, Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhoea, oedema and/or perforation of the oesophagus and pylorus, pancreatitis, haematuria, anuria, uraemia, albuminuria, haemolysis, convulsions, bronchitis, pulmonary oedema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapour with skin or eyes can cause: erythema, blisters, and tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness.

**Accidental release measures:** Use PPE; Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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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. Flammable cupboard are checked during safety inspections.

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**Is health surveillance required?** No

**Training requirements:** None

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**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**

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.

**Fire fighting measures:** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

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

**Advice for Fire fighters:** Wear self-contained breathing apparatus where possible

**Other info:** use water spray to cool other 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: