

## 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: Buffer P2 -  
COSHH  
Date: October 2015

**Department:** NDM,  
NDMRB

**Persons involved:** All NDMRB Laboratory Staff

**Location of work:**  
NDMRB Laboratories

**Description of procedure:** DNA purification kit reagent

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Buffer P2 (contains 1-3% SDS and 0.5-1% of Sodium hydroxide)	Up to 10ml of P2 Buffer	Weekly/ as necessary	H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.	Ingestion; contact with 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:**

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

**Management measures:** Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

**Most important symptoms and effects, both acute and delayed:** Causes serious eye damage. Causes severe burns

**Control parameters** Occupational Exposure Limits Components CAS-No. 1310-73-2 sodium hydroxide STEL 2 mg/m<sup>3</sup> GB EH40

**Accidental release measures:** Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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.

**Checks on control measures:**

Is health surveillance required? No

Training requirements: None

**Emergency procedures:**

**General advice:** Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Consult a physician.

**If inhaled:** If unconscious place in recovery position and seek medical advice. If symptoms persists, call a physician.

**In case of skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

**In case of eye contact:** Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye.

**If swallowed:** If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

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

**Special hazards arising from the substance or mixture:** No hazardous combustion products are known.

**Further information:** In the event of fire and/or explosion do not breathe fumes.

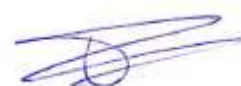
Waste disposal:

**Disposal:**

**Large quantity of P2 buffer must be disposed of via the Safety Office – contact your lab manager to arrange collection.**

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: