

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 QiaZOL
-COSHH
Date: October 2015

Department: NDM,
NDMRB

Persons involved: All NDMRB Laboratory Staff

Location of work:
NDMRB Laboratories

Description of procedure: RNA purification kit reagent

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Buffer QiaZOL (Contains phenol, guanidine thiocyanate: toxic, corrosive.)	Up to 1ml of QiaZol per sample	Weekly/ as necessary	H301: Toxic if swallowed. H331: Toxic if inhaled. H311: Toxic in contact with skin. H314: Causes severe skin burns and eye damage. H341: Suspected of causing genetic defects. H373: May cause damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.	Inhalation, 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: QiaZOL should be handled in ducted chemical fume hood only.

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: Toxic if swallowed, in contact with skin or if inhaled Causes serious eye damage. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Causes severe burns

Accidental release measures: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. 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. Unsuitable cleaning agents sodium hypochlorite

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

Checks on control measures:

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

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. Symptoms of poisoning may appear several hours later.

If inhaled: Call a physician or poison control centre immediately. If unconscious place in recovery position and seek medical advice

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 using PEG 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: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Carbon oxides Sulphur oxides

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

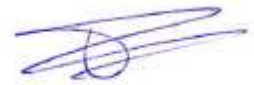
Waste disposal:

Disposal:

Phenol 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:

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: