

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-053-COSHH
Date: May 2015

Department: NDM, TDI	Persons involved: All Laboratory Staff
Location of work:	Laboratories

Description of procedure: General Lab reagent, used in specialist tissue culture, cell selection

Substances used	Quantities used	Frequency of use	Hazards identified	Exposure route
Hygromycin B, from <i>Streptomyces hygroscopicus</i> CAS no 31282-04-9	50 mg/mL stock working solution 200–500 µg/mL	Daily/weekly	Fatal if swallowed, in contact with skin or if inhaled Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Eyes, skin, mucous membranes and upper respiratory tract

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. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

PPE: Wear suitable protective gloves/eye protection/face protection. Wear lab coat.

Management measures: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C

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. Do not let product enter drains. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Checks on control measures:

Is health surveillance required? No	Training requirements: None
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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

Wash off with soap and plenty of water. Take victim immediately to hospital. 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

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, Nitrogen Oxides (NOx)

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

Other info: use water spray to cool other unopened containers

Waste disposal:

Disposal: Dispose of any waste via the safety office, refer to local SOP and RA

Name and position of assessor: Andrea Keepence-Keyte, TDI Lab Manager

Signature:

Name of supervisor (student work only):

Signature:

Name of head of department or nominee:

Signature: