

## 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: AEC -COSHH  
Date: October 2015

Department: NDM,  
NDMRB

Persons involved: All NDMRB Laboratory Staff

Location of work:  
NDMRB Laboratories

Description of procedure: Immunochemistry reagent (ELISPOT)

| Substances used                | Quantities used   | Frequency of use    | Hazards identified                                | Exposure route                |
|--------------------------------|---|---------------------|---|-------------------------------|
| 3-Amino-9-ethylcarbazole (AEC) | Powdered tablet form (20mg/tablet)<br>10ml solution: 1% AEC (20x) in 100% DMF (N,N-Dimethylformamide) | Weekly/as necessary | H301 Toxic if swallowed.<br>H350 May cause cancer | Ingestion; contact with skin. |

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

Most important symptoms and effects, both acute and delayed: Acute toxicity LD50 Oral - Rat - 144 mg/kg LD50 Intraperitoneal - Mouse - 150 mg/kg Possible human carcinogen

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.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. 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** 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. Consult a physician.

**In case of eye contact** Flush eyes with water as a precaution.

**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 (NO<sub>x</sub>)

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

Waste disposal:

**Disposal:**  
Dispose of reagent by flicking of the plate over a laboratory sink, flush with copious amount of water.

ELISPOT plates to be disposed of via autoclave waste route.

**Stock pot of reagent 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: