

## MATERIAL SAFETY DATA SHEET

Date of Issue:  
DD of MMMM YYYY



### SECTION 1 IDENTIFICATION OF THE MATERIAL and SUPPLIER

Product Name: XXXXX

Other Names:

Recommended use: XXXXX

Company: Research Group  
Department and  
Research School/Faculty

Address: The Australian National University  
Canberra, ACT, 0200  
Australia

Telephone Number: +61 2 6125 XXXX

Emergency Telephone Number: +61 2 6125 XXXX or Australian Poisons Information Centre 13 11 26

### SECTION 2 HAZARDS IDENTIFICATION

#### STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE / NON-HAZARDOUS SUBSTANCE  
DANGEROUS GOODS / NON-DANGEROUS GOODS

Risk phrase(s): R

Safety phrase(s): S

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion

### SECTION 4 FIRST AID MEASURES

The following first aid procedures are those for general chemical exposure. Additional treatment may be required if unusual symptoms develop.

Swallowed: Do not delay. Rinse mouth out with plenty of water. Do not induce vomiting.  
Transport (via Ambulance) to hospital or doctor and seek medical attention.

Eye: If this product comes in contact with the eyes:  
Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  
Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or

for at least 15 minutes.

Transport (via Ambulance) to hospital or doctor without delay.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Skin:** If skin contact occurs:  
Immediately remove all contaminated clothing, including footwear  
Flush skin and hair with running water.  
Seek medical attention in event of irritation.

**Inhaled:** If **gas, vapour, dust, mist, fumes** or combustion products are inhaled remove from contaminated area.  
Lay patient down. Keep warm and rested. Monitor.  
Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.  
Transport (via Ambulance) to hospital, or doctor.

#### **First Aid Facilities:**

Trained first aid officers, preferably with oxygen resuscitation training. A first aid room with associated equipment. Safety showers and eyewashes should be available in the workplace.

#### **Advice to Doctor:**

Treatment symptoms

### **SECTION 5 FIRE FIGHTING MEASURES**

*The flammability and combustion products of this material have not been thoroughly investigated.*

**Fire/Explosion Hazard:**

The risk of fire or explosion associated with the storage and transport of this material is –  
*Low Medium Significant.*

Suitable extinguishing media: **XXXXX**

Hazards from combustion products: **may produce toxic fumes of XXXXX**

Special protective precautions and equipment for fire fighters: **XXXXX**

**HAZCHEM Code:**

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Minor Spills**



Remove all ignition sources.

Clean up all spills as soon as practicable.

Avoid breathing vapours and contact with skin and eyes.

Control personal contact by using protective equipment.

Contain and absorb small quantities with paper towel or other absorbent material.

Wipe up.

Collect residues in a suitable waste container.

**Major Spills**

(major spills are not likely due to the small quantity of this research chemical)

Pollutant - contain spillage

Clear area of personnel and move upwind.

Alert Fire Brigade and tell them location and nature of hazard.

May be violently or explosively reactive.  
Wear breathing apparatus plus protective gloves.  
Prevent, by any means available, spillage from entering drains or water course.  
Consider evacuation (or protect in place).  
No smoking, naked lights or ignition sources.  
Increase ventilation.  
Stop leak if safe to do so.  
Water spray or fog may be used to disperse /absorb vapour.  
Contain spill with sand, earth or vermiculite.  
Collect recoverable product into labelled containers for recycling.  
Absorb remaining product with sand, earth or vermiculite.  
Collect solid residues and seal in labelled drums for disposal.  
Wash area and prevent runoff into drains.  
If contamination of drains or waterways occurs, advise emergency services.

## SECTION 7 HANDLING AND STORAGE

Suitable container Check all containers are clearly labelled and free from leaks.

Storage incompatibility Avoid reaction with **XXXX** .

Storage requirements

- Store in original containers.
- Keep away from heat or ignition sources.
- Keep containers securely sealed.
- Store away from incompatible materials in a cool, dry well ventilated area.
- Protect containers against physical damage and check regularly for leaks.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards:  
Not available.

Biological limit values:  
Not available.

Engineering Controls:  
A general laboratory with the safety features indicated in the Australian Standard, Safety in Laboratories series AS 2243. As a minimum, a chemical safety fume cupboard shall be used during the handling of this material.

Personal Protective Equipment:

- |                        |  |
|------------------------|--|
| Eye/face               | Chemical safety glasses or goggles. A full-face shield may be required if splashes or projectiles are likely.  |
| Skin protection        | Nitrile or neoprene gloves<br>Laboratory coat or apron<br>Safety footwear                                      |
| Respiratory protection | if handled outside a chemical fume cupboard, an air supply (or air-purifying) respirator should be considered. |
| Other                  | Eyewash and safety shower unit.  |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Physical Description/Properties

Appearance: XXXXX

Odour: XXXXX

Boiling Point/Melting Point: XXXXX

pH: XXXXX

Vapour Pressure: XXXXX

Vapour density:

Specific Gravity or Density: XXXXX

Solubility (specify solvent, e.g. water): XXXXX

Information for flammable materials, including:

Flash point: XXXXX and method of detecting flash point: XXXXX

Upper flammable (explosive) limit in air: XXXXX

Lower flammable (explosive) limit in air: XXXXX

Ignition temperature: XXXXX

### Other Properties: (OPTIONAL)

Specific heat value.

Particle size.

Volatile organic compounds (VOC) content.

Evaporation rate.

Viscosity.

Percent volatile.

Octanol/water partition coefficient.

Saturated vapour concentration (include reference temperatures).

Additional characteristics not noted above may also be provided if applicable to the material.

Flame propagation or burning rate of solid materials.

Properties of both flammable and non-flammable materials that may initiate or uniquely contribute to the intensity of a fire (e.g. Class 4 or Class 5).

Potential for dust explosion.

Reactions that release flammable gases or vapours.

Fast or intensely burning characteristics.

Non-flammables that could contribute unusual hazards to a fire, such as strong oxidizing and reducing agents or peroxide formers.

Release of invisible flammable vapours and gases.

Decomposition temperature.

## SECTION 10 STABILITY AND REACTIVITY

Chemical stability:

Conditions to avoid:

Incompatible materials:

Hazardous decomposition products:

Hazardous reactions:

## SECTION 11 TOXICOLOGICAL INFORMATION

The properties of this material have not been fully investigated. The health outcomes may be unknown at this stage. The material should be treated as hazardous, and exposure minimized as far as is practical.

*Acute:*

Swallowed: Not available

Eye: Not available

Skin: Not available

Inhaled: Not available

*Chronic:*

Not available

## SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability:

Mobility:

*Additional information*

*Environmental fate (exposure)*

*Bioaccumulative potential*

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods and containers

Special precautions for landfill or incineration

Consult researcher for recycling options and recycle where possible.

Use an approved chemical waste disposal company.

Recycle containers if possible, or dispose of in an authorised landfill.

## SECTION 14 TRANSPORT INFORMATION

Special precautions for user

UN Number: no UN Number allocated

UN Proper Shipping Name


Dangerous Goods Class and Subsidiary Risk: no dangerous goods class allocated

Packing Group:

HAZCHEM Code: none allocated

Poisons Schedule Number: none allocated


## SECTION 15 REGULATORY INFORMATION

The regulator  status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation.

SUSDP

Scheduled carcinogen (under the Commonwealth OHS regulations) 

Agricultural and Veterinary Chemical

Industrial Chemical (Australian Inventory of Chemical Substances) 

Not assigned

Not assigned

Not assigned

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<b>SECTION 16      OTHER INFORMATION</b>
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Date of preparation or last revision of the MSDS

*Additional information*

*Key/legend to abbreviations and acronyms used in the MSDS.*

*Literature references.*

*Sources for data.*