

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) Name: Ammonium Molybdate. Catalogue # C071.
Other Names: Hexaammonium molybdate.
Recommended Use: For electron microscopy negative training.

Supplier Name: ProSciTech
Postal Address: PO Box 111, Thuringowa Central Qld. 4817 Australia
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
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SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of NOHSC.
Risk Phrases: R22: Harmful if ingested. R36: Irritating to eyes.
Safety Phrases:

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE:
Chemical Identity: Ammonium Molybdate.
Common Name(s): Hexaammonium molybdate.
CAS Number(s): 12027-67-7

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Ammonium Molybdate	12027-67-7	100

SECTION 4 - FIRST AID MEASURES

Swallowed: If conscious drink 2-4 glasses of milk or water. INDUCE VOMITING. Never give an unconscious person anything to drink, never induce them to vomit. Seek immediate medical attention.

Eye: Check for and remove any contact lenses. Flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use eye ointment. Seek medical attention.

Skin: Remove contaminated clothing. Wash contaminated skin with non-abrasive soap and plenty of water. Cold water may be used. Cover the skin with an emollient. If irritation occurs/persists seek medical attention. Wash contaminated clothing before reuse.

Inhaled: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

First Aid Facilities: Safety Shower, Eye bath.

Medical Attention & Special Treatment:

ADDITIONAL INFORMATION:

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Negligible fire hazard, use extinguishing media for the surrounding fire.

Hazards from Combustion Products:

Precautions for Fire Fighters: Wear full safety gear and approved respirator. Move container from fire if possible. Avoid breathing vapours or dust. Keep upwind of fire.

Hazchem Code:

SECTION 6 - ACCIDENTAL RELEASE MEASURES**Emergency Procedures:****Containment and clean up:**

Use appropriate protective equipment, refer to section 8.

SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by flushing the contaminated surface with plenty of water.

LARGE SPILL: Stop leak if without risk. **DO NOT** get water inside the container. **DO NOT** touch spilled material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas, dike if needed. Collect material for disposal. Finish cleaning by flushing the area with water and allow it to evacuate through the sanitary system.

SECTION 7 - HANDLING & STORAGE**Precautions for Safe Handling:**

Keep locked up. **DO NOT** ingest. **DO NOT** breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested seek medical advice immediately and show the label. Avoid contact with skin and eyes. Wear appropriate protective equipment. Wash thoroughly after handling.

Conditions for Safe Storage:

Keep container tightly closed. Keep in a cool, well-ventilated area. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**National Exposure Standards:**

No exposure standard allocated.

Biological Limit Values:

No biological limit allocated.

Engineering Controls:

Use local exhaust ventilation.

Personal Protective Equipment:

Splash goggles, lab coat, dust respirator (NIOSH/MSHA approved or equivalent), impervious gloves. If necessary use a NIOSH/MSHA approved or equivalent respirator.

In case of a **LARGE SPILL** use; Splash goggles, full suit, dust respirator, boots, gloves, self-contained breathing apparatus (NIOSH/MSHA approved or equivalent).

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**Appearance:**

White to light-green crystalline solid.

Odour:

Slight ammonia odour.

pH:

Not available.

Vapour pressure:

Not available.

Vapour density:

Not available.

Boiling point/range:

Not available.

Freezing/melting point:

Decomposes.

Solubility:

Easily soluble in hot or cold water.

Specific gravity or density:

2.276 when water = 1.

Flash Point:

Not available.

Flammable (explosive) limits:

Not available.

Ignition temperature:

Not available.

Additional Information:

Molecular weight: 1235.86

SECTION 10 - STABILITY AND REACTIVITY**Chemical stability:**

Stable under normal conditions of use.

Conditions to avoid:**Incompatible Materials:****Hazardous Decomposition****Products:****Hazardous Reactions:**

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects: Acute: Oral LD50 Rat, 333mg/kg.
Possible routes of exposure: Eye/skin contact, ingestion, inhalation.
Range of effects following exposure: Very dangerous in case of eye contact (irritant), ingestion and inhalation. Slightly dangerous to dangerous in case of skin contact (irritant). This product is an eye irritant. Severe over-exposure can result in death. Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact. Inflammation of the eye is characterised by redness, watering and itching.

Dose likely to cause injury:
Delayed effects:
Relevant negative data:

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:
Persistence and degradability:
Mobility:
Additional Information: Metal oxides are produced during biodegradation, these products are as toxic as the original product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance to Federal, State and Local regulations.
Special Precautions:

SECTION 14 - TRANSPORT INFORMATION

UN Number:
UN Proper Shipping Name:
Class and Subsidiary risk:
Packing Group:
Special Precautions for User:
Hazchem Code:

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number: None allocated

SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: 07 April 2008
