



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium tetrathiomolybdate**
PRODUCT NUMBER: 1087
CAS NUMBER: 15060-55-6
SYNONYM: Ammonium molybdenum sulfide, Ammonium thiomolybdate
MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EYE CONTACT: Irritating to eyes. May cause redness and pain.

SKIN CONTACT: Mildly irritating to skin. May cause itching and redness.

INHALATION: Inhalation of dust can lead to irritation of the respiratory tract, causing coughing and sore throat.

INGESTION: No information on the physiological effects of ingestion.

CHRONIC HEALTH EFFECTS: No information available on long-term chronic effects.

ACUTE HEALTH EFFECTS: Irritating to skin, eyes, and respiratory tract.

HMS CLASSIFICATION:

Health: 0 Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 0 Fire: 0 Reactivity Hazard: 0

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $(\text{NH}_4)_2\text{MoS}_4$

Molecular Weight: 260.28

| CHEMICAL NAME | CAS# | % | ACGIH (TWA) | OSHA (PEL) |
|-----------------------------|------------|-----|---------------------------|-------------------------|
| Ammonium tetrathiomolybdate | 15060-55-6 | 100 | 0.5 mg/m3 (as Mo-soluble) | 5 mg/m3 (as soluble Mo) |

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: None. Material is non-combustible

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Nitrogen oxides, sulfur oxides, ammonia, sulfides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid dust formation. Always wear appropriate personal protective equipment.

ENVIRONMENTAL PRECAUTIONS: Do not let enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills can be mixed with vermiculite, sodium carbonate, or other suitable non-combustible absorbent and then swept up and placed in a suitable container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use with adequate ventilation.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed and store in a cool, well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear appropriate chemical resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Dark red, crystal

MOLECULAR WEIGHT: 260.28

BOILING POINT: No data

MELTING POINT: > 300° C

SPECIFIC GRAVITY: No data

VAPOR PRESSURE: Not applicable

SOLUBILITY: No data

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: Reaction with mineral acids

INCOMPATIBILITY: Acids and oxidizing agents

DECOMPOSITION PRODUCTS: Nitrogen oxides, sulfur oxides, ammonia, sulfides

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 313 COMPONENTS: Title compound listed

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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