

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Molybdenum (VI) oxide
CAS #: 1313-27-5
FORMULA: MoO₃
SYNONYM: Molybdic anhydride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	1313-27-5	100	10mg/m ³ (as Mo-insoluble)	15mg/m ³ (as insoluble Mo)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Harmful: Danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Irritating to skin, eyes and respiratory tract.
PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation
EYE CONTACT: Causes slight to mild irritation of the eyes.
SKIN CONTACT: Causes slight to mild irritation of the skin.
INHALATION: The material is a fine powder. Irritating to the nose, mucous membranes and respiratory tract.
INGESTION: Harmful if swallowed. Ingestion may lead to vomiting and diarrhea.
CHRONIC HEALTH EFFECTS: No information available on long-term chronic effects.
ACUTE HEALTH EFFECTS: Harmful: Danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Irritating to skin, eyes and respiratory tract.

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: not applicable

SPECIAL FIREFIGHTING PROCEDURES: If involved in a 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: No hazardous combustion or decomposition products.

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container.

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 chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

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: pale green powder

MOLECULAR WEIGHT: 143.95

MELTING POINT (DEG. C.): none

BOILING POINT: subl.

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 4.69

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: none

INCOMPATIBILITY: none
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Inhalation (human-man); TCLo: 6 mg/m³/4Y. Oral (rodent); LD50: 2689 mg/kg. Inhalation (rat); LD50: >5840 mg/m³/4H. Administration onto the skin (rat); LD50: >2 gm/kg. Intraperitoneal (mouse); LD50: 141 mg/kg. Subcutaneous (mouse); LD50: 94 mg/kg. Intraperitoneal (guinea pig); LD75: 400 mg/kg. Inhalation (rat); TCLo: 10 mg/m³/2H/9W-1. Inhalation (rat); TCLo: 100 mg/m³/6H/14D-1. Inhalation (mouse); TCLo: 300 mg/m³/6H/14D-1. Inhalation (rat); TCLo: 100 mg/m³/6H/2Y-1. Inhalation (mouse); TCLo: 10 mg/m³/6H/2Y-1. Intraperitoneal (mouse); TDLo: 4750 mg/kg/7W-1. Hamster embryo; Micronucleus test: 500 mg/L.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Not reportable under SARA Title 313

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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