



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Potassium Molybdate**  
PRODUCT NUMBER: 2924-1  
CAS NUMBER: 13446-49-6  
SYNONYMS: Potassium Molybdenum oxide, Dipotassium Molybdate

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### HMIS CLASSIFICATION:

Health: 1      Flammability: 0      Reactivity: 0

### NFPA RATING:

Health: 1      Fire: 0      Reactivity Hazard: 0

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** Causes serious irritation of the eyes.

**SKIN CONTACT:** Causes irritation.

**INHALATION:** Inhalation of dust can lead to irritation of the respiratory tract and mucous membranes.

**INGESTION:** May be harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $K_2MoO_4$

Molecular Weight: 238.13

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Potassium molybdate	13446-49-6	100	5 mg/m3	5 mg/m3

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water (lukewarm if possible) for several minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention if redness or irritation persists.

**SKIN EXPOSURE:** Wash affected area with soap and water. Remove contaminated clothes if necessary.

**INHALATION:** Remove 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:** Do NOT induce vomiting. Seek medical advice immediately.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable.

**AUTO IGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** Not applicable

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Potassium oxides, and molybdenum oxides.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear approved personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Do not let product enter drains or allow to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** In the case of a spill, sweep up and place in a well-marked container for disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Avoid contact with skin and eyes. Avoid formation of dust. Ensure adequate ventilation.

**CONDITIONS FOR SAFE STORAGE:** Keep in a tightly sealed container. Store material in a cool, dry, and well-ventilated area. Do not store near incompatible compounds.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

**SKIN PROTECTION:** Chemical resistant gloves.

**VENTILATION:** Handle in an efficient chemical 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 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

**ADDITIONAL PROTECTION:** Use in a controlled environment. IRRITANT. Avoid contact with skin, eyes, and clothing. Do not breathe dust. Eyewash capable of sustained flushing in area. Do not eat, drink, or smoke in area. Wash thoroughly after handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid

**MOLECULAR WEIGHT:** 238.13

**BOILING POINT:** No data available

**MELTING POINT:** 919° C

**ODOR:** Odorless

**SPECIFIC GRAVITY:** 2.3 gm/ml

**VAPOR PRESSURE:** Not applicable

**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Moisture and humidity (hygroscopic)

**INCOMPATIBILITY:** Oxidizers and interhalogens

**DECOMPOSITION PRODUCTS:** Potassium oxides, and molybdenum oxides.

## SECTION 11 TOXICOLOGICAL DATA

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen by IARC, ACGIH, NTP, and OSHA.

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**RTECS:** QA4930000

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

## SECTION 12 ECOLOGICAL DATA

Do not allow undiluted product or large quantities to reach ground water, water course, or sewage system.

## 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:** Not listed in the TSCA inventory

**SARA 313 COMPONENTS:** This material does not contain any chemical components with know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 HAZARDS:** Acute Health Hazard

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right To Know Act.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Dipotassium tetraoxomolybdate

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Dipotassium tetraoxomolybdate

**CALIFORNIA PROP. 65 COMPONENTS:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **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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