# XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Potassium molybdate

### 1. Product and Company Identification

Trade Name: Potassium molybdate

Chemical Formula: K<sub>2</sub>MoO<sub>4</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XIAN
State: SHAANXI
Zip Code: 710077
Country: CHINA

Tel #: +86-29-88993870/+86-13519132051

#### 2. Hazards Identification

Signal Word:

Warning



Hazard Statements: H315: Causes skin irritation

H319: Causes serious eye irritation H335: May cause respiratory irritation

**Precautionary Statements:** 

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P280: Wear protective gloves/protective clothing/eye protection/face

protection

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 P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

3. Composition	
Chemical Family: Additional Names:	Ceramic Dipotassium molybdate, Dipotassium tetraoxomolybdate, Potassium Molybdenum Oxide
Potassium molybdate (K <sub>2</sub> MoO <sub>4</sub> ):	
Percentage:	100 wt%
CAS #:	13446-49-6
EC#:	236-599-2
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Seek immediate medical attention.
	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire.  Use full-face, self-contained breathing apparatus with full protective
Spec. The Fighting Flocedure.	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	and the same of th
	6. Accidental Release Measures
If Material Is Released/Spilled:  Environmental Precautions:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	
Handling Conditions:	Handle under dry protective gas. Avoid contact with skin and eyes. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from
Work/Hygienic Maintenance:	water/moisture, air, oxidizing agents. This product is hygroscopic. Store under inert gas. This product is air sensitive. Store apart from materials and conditions listed in section 10.  Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air.  Provide sufficient ventilation to maintain concentration at or below threshold limit.

## 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.5 mg/m³ as Mo, long-term value Threshold Limit Value: 0.5 mg/m³ as Mo, long-term value

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection: Dust Respirator

Protective Gloves: Nitrile rubber gloves with minimum thickness of 0.11 mm

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

# 9. Physical and Chemical Characteristics

Color Colorless Form: Powder Odor: **Odorless** Water Solubility: Soluble **Boiling Point:** N/A **Melting Point:** 919°C Flash Point: N/A Autoignition Temperature: N/A Density: 2.3 g/cc Molecular weight: 238.13 g/mol

#### 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, water/moisture

Incompatible Conditions: Air, water/moisture

Hazardous Decomposition Products: Metal oxide fume, potassium oxides, molybdenum oxides

### 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: May cause irritation

Inhalation: May cause respiratory irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

12. Ecological Information
N/A
N/A
N/A
Do not allow product to reach ground water, water course or sewage
system.
Avoid transfer into the environment.
13. Disposal Considerations
e, national, and international regulations.
14. Transportation Data
Not hazardous for transportation.
N/A
N/A
N/A
N/A
15. Regulatory Information
No
N/A

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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