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## MATERIAL SAFETY DATA SHEET (MSDS)

### SODIUM MOLYBDATE AR

#### 1. Product Identification

**Synonyms:** Molybdic Acid, Disodium Salt, Dihydrate; Disodium molybdate dihydrate; sodium molybdate dihydrate  
**CAS No.:** 7631-95-0 (Anhydrous); 10102-40-6 (Dihydrate)

Product Coad: S0190000500

**Molecular Weight:** 241.95  
**Chemical Formula:** Na<sub>2</sub>MoO<sub>4</sub> . 2H<sub>2</sub>O

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Sodium Molybdate	7631-95-0	99 - 100%

#### 3. Hazards Identification

**Emergency Overview WARNING! HARMFUL IF INHALED. MAY BE HARMFUL IF SWALLOWED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.** **Inhalation:** Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Can be route for absorption of soluble salts of molybdenum. **Ingestion:** Moderately toxic because of solubility. Large doses cause severe distress; cramping, vomiting, and hypertension. **Skin Contact:** Can be irritating to wet skin causing a rash which is difficult to heal. **Eye Contact:** Irritant to soft tissues. Acts as a sensitizer.

#### 4. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. **Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

#### 5. Fire Fighting Measures

**Fire:** Not considered to be a fire hazard. **Explosion:** Not considered to be an explosion hazard.  
**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

#### 7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

#### 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** -OSHA Permissible Exposure Limit (PEL): 5 mg/m<sup>3</sup> for soluble molybdenum compounds as Mo 15 mg/m<sup>3</sup> total dust, for insoluble molybdenum compounds as Mo-ACGIH Threshold Limit Value (TLV):Molybdenum, metal and insoluble compounds, inhalable fraction, as Mo: 10 mg/m<sup>3</sup> Molybdenum, metal and insoluble compounds, respirable fraction, as Mo: 3 mg/m<sup>3</sup> Molybdenum, soluble compounds, respirable fraction, as Mo: 0.5 mg/m<sup>3</sup>, A3 - Confirmed animal carcinogen with unknown relevance to humans **Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. **Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece particulate respirator (NIOSH type N100 filters) may be worn for up to 50 times the exposure limit or the

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maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**9. Physical and Chemical Properties**

**Appearance:** Small white scales or flakes.

**Odor:** Odorless. **Solubility:** 84 g/100 g water @ 100C (212F) **Specific Gravity:** 3.28 @ 18C (64.4F)

**10. Stability and Reactivity**

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Toxic metal fumes may form when heated to decomposition.

**Hazardous Polymerization:** Will not occur. **Incompatibilities:** Incompatible with alkali metals, most common metals and oxidizing agents. Explodes on contact with molten magnesium. Violent reaction with interhalogens (e.g., bromine pentafluoride; chlorine trifluoride). Incandescent reaction with hot sodium, potassium or lithium. **Conditions to Avoid:** Moisture, heat, flames, ignition sources and incompatibles.

**11. Toxicological Information**

N/A

**12. Ecological Information**

Environmental Fate: No information found.

Environmental Toxicity: No information found.

**13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. Transport Information**

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

**15. Regulatory Information**

SARA Title III: N/A

Federal Regulatory: N/A

**16. Other Information**

**NFPA Ratings:** Health: 2 Flammability: 0 Reactivity: 0

**Label Hazard Warning:** WARNING! HARMFUL IF INHALED. MAY BE HARMFUL IF SWALLOWED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**Label Precautions:** Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Heat will contribute to instability. Use only with adequate ventilation. Wash thoroughly after handling.

**Label First Aid:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention. **Product Use:** Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**