



## Material Safety Data Sheet

### SODIUM MOLYBDATE DIHYDRATE

Product: 1242801

Revision Date: 2011/09/16

#### Section 1: PRODUCT INFORMATION

**Chemical family:** Molybdenum.

**Supplier:** UNIPEX SOLUTIONS CANADA Inc.  
1570 Ampere, suite 106  
Boucherville, Quebec  
J4B 7L4.

**Emergency Phone Number:** Newalta 1-800-567-7455.

**Manufacturer:** Various manufacturers.

**TDG classification:** Not regulated.

**WHMIS classification:**

D2B



**DSL status:** Appears on DSL as anhydrous form, CAS# 7631-95-0.

#### Section 2: HAZARDOUS INGREDIENTS

CAS	CONCENTRATION %	Ingredient Name	TLV	LD50	LC50
10102-40-6	> 99 %	SODIUM MOLYBDATE DIHYDRATE	5 MG(MO)/M3	NOT AVAILABLE	NOT AVAILABLE

#### Section 3: PHYSICAL DATA

**Physical state:** Solid

**Appearance & odor:** Odorless.  
White powder.

**Odor threshold (PPM):** Not applicable.

**Vapour pressure (mm hg):** Not applicable.

**Vapour density (air=1):** Not applicable.

**By weight:** Not available.

**Evaporation rate**  
(butyl acetate = 1): Not applicable.

**Boiling point (°C):** > 100°C (212°F)

**Freezing point (°C):** (melting point).  
(anhydrous).  
687

**PH:** (5% solution).  
9–10

**Specific gravity @ 20 °C:** 2.37 g/cm

**Solubility in water (%):** Not available.

**Coefficient of water\oil dist.:** Not available.

#### Section 4: FIRE & EXPLOSION DATA

**Flammability:** Not flammable as per WHMIS.

**Conditions of flammability:** At temperatures at or above flash point.

**Extinguishing media:** Carbon dioxide, dry chemical, foam.  
Water spray.  
Use appropriate extinguishing media for surrounding fire.

**Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.

**Auto-ignition temperature:** Not available.

**Flash point (°C), method:** None

**Lower flammability  
limit (% vol):** Not applicable.

**Upper flammability  
limit (% vol):** Not applicable.

##### Explosion Data

**Sensitivity to static discharge:** Not available.

**Sensitivity to mechanical impact:** Not available.

**Hazardous combustion products:** Oxides of carbon (CO,CO2).  
Oxides of sodium.  
Oxides of molybdenum.

**Explosive power:** Not available.

#### Section 5: REACTIVITY DATA

**Chemical stability:** Product is stable.

**Conditions of reactivity:** Excessive heat, sparks and open flames.  
Reacts with reducing agents (reaction may be violent).

**Hazardous polymerization:** Will not occur with normal conditions.

**Incompatible substances:** Strong oxidizing agents.

**Hazardous decomposition  
products:** See hazardous combustion products in section 4.

#### Section 6: TOXICOLOGICAL PROPERTIES

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

Effects of acute exposure

**Eye contact:** May cause irritation.

**Skin contact:** May cause irritation or rash.

**Inhalation:** Not a likely route of exposure.

**Ingestion:** May cause vomiting.  
May cause weakness.  
May lead to unconsciousness or death.  
May cause abdominal cramps.  
May cause hypertension.

**Effects of chronic exposure:** May cause liver damage.  
May cause loss of appetite.

**LD50 of product, species & route:** Not available.

**LC50 of product, species & route:** Not available.

**Exposure limit of material:** 5 mg/m<sup>3</sup>.

**Sensitization to product:** Not available.

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

## Section 7: PREVENTATIVE MEASURES

### Precautionary Measures

**Gloves/Type:**



Wear protective gloves.

**Respiratory/Type:**



If TLV is exceeded, wear a NIOSH approved mist/dust respirator.

**Eye/Type:** Dust resistant safety goggles.

**Footwear/Type:** Safety boots per local regulations.

**Clothing/Type:** Wear adequate protective clothes.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** Local exhaust at points of emission.

**Leak/Spill:** Evacuate all non-essential personnel.  
Prevent entry into drains, sewers, and other waterways.  
Wear appropriate protective equipment.  
Sweep up or vacuum.  
Rinse spill area with water.  
Place in clean, dry, covered containers.

**Waste disposal:** In accordance with municipal, provincial and federal regulations.

**Handling procedures and equipment:** Use adequate ventilation.  
Avoid breathing dust.  
Wash thoroughly after handling.  
Avoid contact with skin, eyes and clothing.  
Wear suitable protective clothing.  
Do not ingest.

**Storage requirements:** Store away from all sources of ignition.  
Store away from incompatible materials (See MSDS section 5).  
Keep container closed.  
Store in a cool, dry and well ventilated area.

**Special shipping information:** See transportation information in section 1.

#### Section 8: FIRST AID MEASURES

**Skin contact:** Consult a physician if irritation persists.  
Immediately flush skin with plenty of water and soap for 15 minutes while removing contaminated clothing and shoes.

**Eye contact:** Flush with water for at least 15 minutes, holding eyelids open with fingers.  
Consult a physician.

**Inhalation:** Remove victim to fresh air.  
If symptoms persist, get medical attention.

**Ingestion:** DO NOT induce vomiting, seek medical attention.  
If conscious, give several glasses of milk or water.  
If vomiting occurs, keep head below hips.  
Never give anything by mouth to an unconscious person.

**Additional information:** To the best of our knowledge, the information contained herein is accurate. However, neither UNIPLEX SOLUTIONS CANADA nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

#### Section 9: ADDITIONAL INFORMATION

**General note:** This Material Safety Data Sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

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