

AERCHEM INC.
320 North Walnut
Bloomington, IN 47408

Telephone: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 12/17/96
Product Name: **SODIUM MOLYBDATE DIHYDRATE**; disodium molybdate dihydrate; molybdic acid, sodium salt dihydrate
Chemical Formula: Na₂MoO₄ · 2H₂O
CAS No.: 10102-40-6

SECTION 2: HAZARDOUS INGREDIENTS:

Slightly dangerous to dangerous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. This product may irritate eyes and skin upon contact. May be harmful by inhalation, ingestion, or skin absorption. Causes eye irritation and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 3: PHYSICAL DATA

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| Appearance and Odor: | solid, white crystalline powder |
| Boiling point:(760 mmHg) | decomposes |
| Vapor Pressure (mmHg): | n/a |
| Specific Gravity (Water = 1): | 3.280 |
| Solubility in water:(by weight) | n/a |
| Melting Point: | 687°C (128.6°F) |
| Volatility: | n/a |
| Vapor Density: | n/a |

SECTION 4: FIRE AND EXPLOSION DATA

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|-------------------------------------|---------------------|
| Flash point: | n/a - non-flammable |
| Flammable limit: | n/a |
| Extinguishing Media: | non-flammable |
| Unusual Fire and Explosion Hazards: | n/a |

SECTION 5: REACTIVITY DATA

Stable X Unstable

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|---|-------------------------|
| Conditions to Avoid: | n/a |
| Incompatibilities: | strong oxidizing agents |
| Hazardous Decomposition or byproducts: | some metallic oxides. |
| Hazardous Polymerization: | no |

SECTION 6: HEALTH HAZARD DATA

Permissible Exposure Limit: TWA: 5 CEIL: 10 mg/m³

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| Toxicity: | OSHA PEL: 8H TWA 15 mg/m ³ , total dust OSHA PEL: 8H TWA 5 mg/m ³ , respirable fraction OSHA PEL final: 8H TWA 10 mg/m ³ m total dust OSHA PEL final; 8H TWA 5 mg/m ³ , respirable fraction IPR-rat LD50 = 520 mg.kg IPR-mus LD50 = 257 mg/kg |
| Route of Entry: | inhalation, ingestion |
| Target Organs: (menstrual) | behavioral (somnia & coma), material effects cycle changes or disorders), Effects of embryo or fetus (fetotoxicity) |

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SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: Use appropriate tools to put spilled solid in convenient waste disposal container.
Finish cleaning by spreading water on contaminated surface and dispose of according to local
and regional authority requirements. Wear SCBA, rubber boots, heavy rubber gloves.
Disposal: Recycle, if possible. Consult your local or regional authorities.
Cautiously acidify a 3% solution or a suspension of the material to pH 2 with sulfuric acid. Gradually add a 50% excess of aqueous sodium bisulfite with stirring at room temp. An increase in temp. indicates that a reaction is taking place. If no reaction is observed on the addition of about 10% of the sodium bisulfite solution, initiate it by cautiously adding more acid. If manganese, chromium or molybdenum are present, adjust the pH of solution to 7 and treat with sulfide to precipitate for burial as hazardous waste. Destroy excess sulfide, neutralize and flush the solution down the drain.

SECTION 8: FIRST AID PROCEDURES

Eyes: Remove any contact lenses. Do not use eye ointment. Seek medical attention.
Skin: Wash with plenty of water. Gently wash skin with running water and non-abrasive soap. Be careful to clean folds, crevices, creases, and groin. Cold water may be used. Cover irritated skin with an emollient. If irritation persists, seek medical attention.
Wash contaminated clothing before reuse.
Inhalation: Allow victim to rest in well ventilated area. Seek medical attention.
Ingestion: Remove any dentures. Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Lower head so vomit will not reenter mouth and throat. Never give an unconscious person anything to ingest. Seek medical attention.

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. No specific storage is necessary.

SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Eye Protection: Splash goggles
Protective Gloves: impervious gloves
Respiratory Protection: dust respirator - be sure to use a MSHA/NIOSH approved respirator or equivalent
Other Protective Gear: safety shower and eye bath; lab coat; boots, full suit, and self contained breathing apparatus in case of large spill

SECTION 11: TRANSPORT INFORMATION

DOT classification: not regulated

DOT pictograms:

SECTION 12: OTHER REGULATORY INFORMATION

Federal and State regulations: not available

WHMIS (Canada): not controlled under WHMIS

DSCL (EEC): not controlled under DSCL

HMIS (USA): 2 health, 0 fire hazard, 0 reactivity, e personal protection