

Material Safety Data Sheet

SODIUM MOLYBDATE DIHYDRATE

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Sodium molybdate(VI) dihydrate

Synonyms: None

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2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name:	%	EINECS#
10102-40-6	Sodium molybdate dihydrate	98%	unlisted

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:

4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water

Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

7 – HANDLING AND STORAGE

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 7631-95-0:

United Kingdom, WEL - TWA: (molybdenum soluble compounds): 5 mg/m³ TWA (as Mo)
United Kingdom, WEL - STEL: (molybdenum soluble compounds): 10 mg/m³ STEL (as Mo)

United States OSHA: 5 mg/m³ TWA (as Mo) (Molybdenum soluble compounds)

Belgium - TWA: (molybdenum soluble compounds): 5 mg/m³ VLE (as Mo)

France - VME: (molybdenum soluble compounds): 5 mg/m³ VME (as Mo) France - VLE: (molybdenum soluble compounds): 10 mg/m³ VLE (as Mo)

Germany: (molybdenum soluble compounds): 5 mg/m³ VME (as Mo)

Malaysia: (molybdenum soluble compounds): 5 mg/m³ TWA (as Mo)

Netherlands: (molybdenum soluble compounds): 5 mg/m³ MAC (as Mo)

Spain: (molybdenum soluble compounds): 5 mg/m³ VLA-ED (as Mo)

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Spain: (molybdenum soluble compounds): 5 mg/m³ VLA-ED (as Mo)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: white Crystalline powder

Color:

pH: 7.0-10.0 (5% aq.sol.)

Molecular Formula: Na₂MoO₄·2H₂O

Molecular Weight: 241.95

10 - STABILITY AND REACTIVITY

Chemical Stability: Not available

Conditions to Avoid: Incompatible materials.

Incompatibilities with

Other Materials : Strong oxidizing agents.

Hazardous Decomposition

Products : Carbon monoxide, carbon dioxide, sodium oxide

Hazardous Polymerization : Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 10102-40-6: QA5085000

RTECS: CAS# 7631-95-0: Inhalation, rat: LC50 = >2080 mg/m³/4H; Oral, rat: LD50 = 4 gm/kg;

Oral, rat: LD50 = 0.25 gm/kg;

RTECS:

CAS# 10102-40-6:.

Carcinogenicity: Sodium molybdate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Sodium molybdate dihydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12 - ECOLOGICAL INFORMATION

Ecotoxicity: Daphnia: Daphnia: 330 mg/l; 48h; .

Fish: Rainbow trout: 7600 mg/l; 96h; .

13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14 - TRANSPORT INFORMATION

IATA

IMO

RID/ADR

Shipping Name:

Not regulated.

Not regulated.

Not regulated.

Hazard Class:

UN Number:

Packing Group:

15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes

WGK (Water Danger/Protection) CAS# 7631-95-0: 1

Canada CAS# 7631-95-0 is listed on Canada's DSL List

US Federal

TSCA CAS# 7631-95-0 is listed on the TSCA Inventory

CAS# 10102-40-6 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

16 - ADDITIONAL INFORMATION

SISCO RESEARCH LABORATORIES 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. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.