



Shree Jay Ambe

Jay Dinesh Chemicals  
Quality is Priority

Certificate No. : 6709-002

Office Add:- 303/304 Murlidhar complex,  
Opp Fathepura Post offic,  
Bhattha, Paldi, Ahmedabad- 3800 007  
Gujarat, INDIA.

Teli :+91 79 26608664/ 79 26608667

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Email:- Info@jaydinesh.com ; export@jaydinesh.com



Factory: Plot No.184-186, Nr. Clearis Life Science,  
Vill Chacharwadi vasana, Sarkhej bavla highway,  
TA, Sanand, Dist. Ahmedabad- 382 213  
Gujarat, INDIA.

Teli: +91 2717 294247 / 7817 013055

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Websight: www.jaydinesh.com

## SAFTEY DATA SHEET SODIUM MOLYBDATE

### 1 Identification

#### Product identifier

Trade name: **SODIUM MOLYBDATE**

CAS Number: **10102-40-6**

EC number: **231-551-7**

#### Application of the substance / the mixture

Agricultural/ Horticultural Use- Micronutrient Fertilizer- Refer to product label.

#### Details of the supplier of the safety data sheet

##### Manufacturer/Supplier

Manufactured by: Jay Dinesh Chemical Survey No. 184 to 186, Nr. Claris Village Chacharawadi – Vasna,  
Sarkhej Bawla Highway, Ta. Sanand, Dist Ahmedabad–382213.

##### Information department

Customer Service Department - Jay Dinesh Chemicals

Contact: Mis. Jyoti. Chauhan.

e-mail: exports@jaydinesh.com

##### Emergency telephone number

During normal opening time:- +917878730626

### 2 Hazard(s) Identification

#### Physical hazards

Not classified.

#### Health hazards

Not classified.

#### Environmental hazards

Hazardous to the aquatic environment, acute hazard

Hazardous to the aquatic environment, long-term hazard

#### Label elements

##### Hazard pictograms

None

##### Signal word:

None

##### Hazard statements

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

##### Precautionary statements

##### Prevention

Avoid release to the environment.

##### Response

Wash hands after handling.

##### Storage

Store away from incompatible materials.



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<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Supplemental Hazard Statements</b>	none
<b>Other hazards</b>	<b>None</b>
<b>Lachrymator</b>	

### 3 Composition/information on ingredients

**Chemical characterization: Substances**

**CAS No. Description :10102-40-6**

**EC number:231-551-7**

### 4 First-Aid Measures

**Description of first aid measures**

**After inhalation:** Move to fresh air. Call a physician if symptoms develop or persist

**After skin contact:** Wash off with soap and water. Get medical attention if irritation develops and persists.

**After eye contact:** Rinse with water. Get medical attention if irritation develops and persists.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** Direct contact with eyes may cause temporary irritation.

**Indication of any immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically

### 5 Fire-Fighting Measures

**Extinguishing media**

**Suitable extinguishing agents:**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Special hazards arising from the substance or mixture:**During fire, gases hazardous to health may be formed.

**Advice for firefighters**

**Protective equipment:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire



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## 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate

**Environmental precautions:** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### Methods and material for containment and cleaning up:

This product is miscible in water. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water. Prevent entry into

## 7 Handling and Storage

### Handling:

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Information about protection against explosions and fires:** No special measures required.

#### Conditions for safe storage, including any incompatibilities

### Storage

**Requirements to be met by storerooms and receptacles:** Store in cool, dry conditions and well ventilated area.

**Information about storage in one common storage facility:** Do not store together with acids.

**Further information about storage conditions:** Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

**Specific end use(s)** No further relevant information available.

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

### Control parameters

**Components with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.



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Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be

**Eye protection:**

Tightly sealed goggles

**9 Physical and Chemical Properties****Information on basic physical and chemical properties****General Information**

<b>Appearance:</b>	White powder
<b>Odor:</b>	Odorless
<b>Odor threshold :</b>	NA
<b>pH-value:</b>	NA
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	> 212 °F (> 100 °C)
<b>Boiling point/Boiling range:</b>	NA
<b>Specific gravity / density</b>	NA
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	75 °C
<b>Auto igniting:</b>	Not determined
<b>Danger of explosion:</b>	NA



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**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapor pressure:</b>	0.00001 hPa estimated
<b>Density at 20 °C (68 °F):</b>	Not determined.
<b>Relative density:</b>	2.59 g/cm <sup>3</sup> (typical)
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not applicable.
<b>Solubility in / Miscibility with Water:</b>	654 g/l at 20 C
<b>Partition coefficient (n-octanol/water):</b>	Not applicable.
<b>Viscosity:</b>	NA

**10 Stability and Reactivity**

**Reactivity :** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability :** Material is stable under normal conditions.

**Possibility of hazardous reactions:** According to "Bretherick's Handbook" [39] molybdates react violently or explosively when reduced to molybdenum by heating with zirconium. Furthermore, in the preparation of dyestuffs from aniline, nitrobenzene (as oxidant), hydrochloric acid and sodium hydroxide, ferric chloride is often used as catalyst, but sodium molybdate was substituted as a more effective catalyst. The materials were charged into a 4.5 m<sup>3</sup> reactor and heating was started after addition of nitrobenzene, but the temperature controller was mis-set, and overheating at a high rate ensued. The exothermic reaction was much higher than normal because of the more effective catalyst, and partial failure of the cooling water led to an uncontrollable exothermic reaction [39]. Other hazardous reactions have not been identified.

**Conditions to avoid:** Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** No data available .

**11 Toxicological Information****Information on toxicological effects**

<b>Acute toxicity:</b>	LD50 Oral - Rat: 502 - 638 mg/kg LC50 Inhalation - Rat - male and female: > 2.1 mg/l (4h) (OECD Test Guideline 403) Dermal: No data available
<b>Primary irritant effect: on the skin:</b>	no data available





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**on the eye:**

Eyes - rabbit

Result: No eye irritation - 72 h (OECD Test Guideline 405)

**Sensitization:**

mouse

Result: Does not cause skin sensitization. (OECD Test Guideline 429)

**Additional toxicological information:**

**Carcinogenic categories**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

**IARC (International Agency for Research on Cancer):**

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 (National Toxicology Program):**

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-Ca (Occupational Safety & Health Administration) :**

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**

**Toxicity**

**Aquatic toxicity:**

No further relevant information available.

**Persistence and degradability:**

No further relevant information available.

**Behavior in environmental systems**

**Bioaccumulative potential:**

No further relevant information available.

**Mobility in soil:**

No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach

**Results of PBT and vPvB assessment**

**PBT:**

Not applicable.

**vPvB:**

Not applicable.

**Other adverse effects:**

No further relevant information available.

**13 Disposal Considerations (non-mandatory)**



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**Waste treatment methods**

**Recommendation:**

Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations

**Uncleaned packagings**

**Recommendation:** Disposal must be made according to official regulations

**14 Transport Information (non-mandatory)**

<b>UN-Number</b>	
<b>DOT, ADR, ADN, IMDG, IATA</b>	Void
<b>UN proper shipping name</b>	
<b>DOT, ADN, IMDG, IATA</b>	Void
<b>ADR</b>	Void
<b>Transport hazard class(es)</b>	
<b>DOT</b>	
<b>Class</b>	Void
<b>ADR, ADN, IMDG, IATA</b>	
<b>Class</b>	Not restricted for transport
<b>Packing group</b>	
<b>DOT, ADR, IMDG, IATA</b>	Void
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special precautions for user</b>	Not applicable.
<b>UN "Model Regulation"</b>	Void

**15 Regulatory Information (non-mandatory)**

**US federal regulations:**

<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Substance is not listed.
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Substance is not listed.
<b>SARA 304 Emergency release notification</b>	Substance is listed.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
<b>Chemicals known to cause cancer:</b>	Substance is not listed.
<b>Chemicals known to cause reproductive toxicity for females:</b>	Substance is not listed.



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**Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

**Chemicals known to cause developmental toxicity:**

Substance is not listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency):**

Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH):**

Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health):**

Substance is not listed.

**GHS label elements:**

The substance is classified and labeled according to the

## 16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** Quality Control Department

**Contact:** Mis Jyoti. Chauhan.

**e-mail:** [exports@jaydinesh.com](mailto:exports@jaydinesh.com)

**Date of preparation / last revision** 04/18/2019 / -

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**Data compared to the previous version altered.**

Revision Information: 01/2016, Sections 1, 2 revised - Information department and GHS label.

Revision Information: 01/2017, Added new ABCT Logo