



# Safety Data Sheet

## Sodium Molybdate


UPDATED: 20 August 2020

### Section 1: SUBSTANCE IDENTIFICATION & SUPPLIER

<b>Product Name:</b>	Sodium Molybdate - Used in Rose, Rhododendron & General Garden Fertiliser
<b>Other Names:</b>	Sodium Molybdate, Dihydrate
<b>Chemical Formula:</b>	Na <sub>2</sub> MoO <sub>4</sub> .2H <sub>2</sub> O
<b>Product Code:</b>	0001110
<b>Recommended Use:</b>	Fertiliser
<b>Company Identification:</b>	Morton Smith - Dawe Limited
<b>Address:</b>	396 Wigram Road, Halswell, Christchurch PO Box 37 - 139 Halswell
<b>Customer Centre:</b>	03 322 8117
<b>National Poisons Information Centre:</b>	0800 POISON ( 0800 764 766)
<b>Emergency Phone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency Phone Number:</b>	111 - Tell operator what service is needed: Fire, Ambulance or Police

### Section 2: HAZARD IDENTIFICATION

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

<b>Pictograms</b>	
<b>Signal Word:</b>	<b>DANGER</b>

<b>Hazard Classifications:</b>	6.1E
<b>Priority Identifiers:</b>	KEEP OUT OF REACH OF CHILDREN
<b>Secondary Identifiers:</b>	6.1E = May be harmful if swallowed and enters airways.

### Section 3: COMPOSITION IDENTIFICATION

INGREDIENT	CAS No.	CONTENT
Sodium Molybdate, Dihydrate	10102-40-6	100%

## Section 4: FIRST AID MEASURES

<b>First Aid Measures:</b>	<b>IF SKIN IRRITATION OCCURS: get medical attention/advice.</b> Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning
<b>Routes of Exposure:</b>	
<b>If in eyes:</b>	Rinse cautiously with water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.
<b>If on skin</b>	Wash affected area with water then soap and water.
<b>If ingested:</b>	Never give anything by mouth to an unconscious person. If swallowed rinse mouth. DO NOT induce vomiting. Seek medical advice.
<b>If Inhaled:</b>	Remove patient to fresh air. Keep at rest in comfortable position for breathing. Seek medical assistance if effects persist.
<b>Advice to Doctor:</b>	Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

<b>Hazard Type</b>	Not applicable (non-flammable)
<b>Hazardous Combustion Products:</b>	None noted.
<b>Extinguishing Media:</b>	Based on surrounding materials.
<b>Protective Equipment:</b>	Breathing apparatus, goggles and protective gloves.
<b>HAZCHEM Code:</b>	None allocated

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	
For appropriate personal protective equipment see section 8.	
<b>Environmental precautions:</b>	
Avoid unintended release of excessive amounts into waterways or sewers. If spill does enter waterway contact local authority.	
<b>Methods and material for containment and cleaning up:</b>	
Protect yourself and others from injury. Wear appropriate protective clothing. Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible.	

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Avoid generating dusts, do not breathe dust. Use only outdoors or in a well-ventilated area.  <b>Approved Handler:</b> Not required  <b>Tracking:</b> Not required  <b>Record Keeping:</b> Not required
<b>Storage:</b>	Store in sealed packaging in cool, dry area.
<b>Other Information:</b>	Keep out of reach of children. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid unintended release to the environment.

## Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Exposure Limits:</b>	<b>Workplace Exposure Standards (WES):</b> Molydenum, as Mo Soluble compounds: 5mg.m <sup>-3</sup> Insoluble compounds: 10mg.m <sup>-3</sup>  <b>Total Exposure Limit (TEL):</b> Not assigned
<b>Personal Protection Equipment:</b> <div style="display: flex; align-items: center; gap: 10px;"> </div> If dust is present wear a dust mask and goggles. Eye wash facilities should be available.	
<b>Engineering Controls:</b>	Handle in well-ventilation area. If dust generated use local extraction to control. Avoid inhalation of dust.
<b>Hygiene Precautions:</b>	Remove protective clothing and wash hands and face after working with substance.

## Section 9: PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	White
<b>Odour:</b>	Odourless
<b>pH:</b>	9 (20°C)
<b>Format:</b>	Crystalline powder
<b>Melting Point:</b>	687°C
<b>Specific Gravity:</b>	3.28g/cm <sup>3</sup>
<b>Bulk Density:</b>	1000kg/m <sup>3</sup>
<b>Water Solubility:</b>	840g/L (20°C)
<b>Thermal Decomposition:</b>	130°C
<b>Other Information:</b>	None

## Section 10: STABILITY & REACTIVITY

<b>Stability of Substance:</b>	Stable under normal conditions of use and storage.
<b>Hazardous Polymerisation:</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	Toxic metal fumes when heated.
<b>Conditions to Avoid:</b>	Moisture, heat ignition sources.
<b>Materials to Avoid:</b>	Alkali metals e.g.. sodium and lithium, oxidising materials.

## Section 11: TOXICOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	6.1E
<b>Ingestion:</b>	Moderate toxicity due to solubility. Causes nausea and vomiting. Large doses may cause anaemia and liver and kidney effects.
<b>Inhalation:</b>	Irritation of the respiratory tract. May cause coughing, shortness of breath.
<b>Skin:</b>	Irritation. May cause a rash on wet skin.
<b>Eye:</b>	Irritating to the eyes.
<b>Chronic Effects:</b>	Not anticipated
<b>Other Information:</b>	Short term exposure by all routes is considered toxic.
<b>Toxicity Data:</b>	LD <sub>50</sub> (dermal, rat) >2000mg.kg <sup>-1</sup> LD50 (oral, rat) >4233mg. kg <sup>-1</sup>

## Section 12: ECOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	Not assigned.
<b>Ecotoxicity:</b>	Avoid washing excessive amounts into streams and waterways.

## Section 13: DISPOSAL INFORMATION

<b>Disposal Method:</b>	Observe any local authority restrictions that may apply. Collection into sealable containers and dispose of in an approved land fill. If practicable apply excess fertiliser at recommended rates to appropriate land. Reuse material where practicable.
<b>Container Disposal:</b>	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.

## Section 14: TRANSPORT INFORMATION

<b>UN Number:</b>	None allocated.
<b>Proper Shipping Name:</b>	None allocated.
<b>DG Class:</b>	None allocated.
<b>Other Information:</b>	Not regulated for transport purposes.

## Section 15: REGULATORY INFORMATION

<b>Exposure Limits:</b>	(see sections 8 & 12)
<b>EPA Approval Code:</b>	Approved pursuant to the HSNO Act 1996, Approval number HSR004076. See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.

## Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

### Disclaimer

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Please contact Morton Smith - Dawe, if further information is required.

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