



# SAFETY DATA SHEET

## 1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Catalogue No : M 31504  
Product Name : Molybdenum disulphide  
Manufacture / Supplier Identification Company : Nice Chemicals (P) Ltd., PB No: 2217, Manimala Road, Edappally, Kochi - 682 024, Kerala, India.  
Contact for Information : **Tel:** 91-484-2800212, 2802755, 2802536, 2801583  
**Fax :** 0484 2802483  
Emergany Telephone No : 0484 2801583  
TeleFax No : 0484 2802483

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## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Molybdenum disulfide  
CAS - No : 1317 - 33- 5  
Molar Mass : .....  
Molecular weight : 160.07 g/mol  
Molecular Formula : MoS<sub>2</sub>  
EC - INDEX No : .....  
EC - No : .....

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## 3 HAZARDS IDENTIFICATION

Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008 : Acute toxicity, Inhalation (Category 4)  
[EU - GHS/CLP]

### Label Elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram :  
Signal word : Warning  
Hazard statement (s)  
H332 : Harmful if inhaled  
Precautionary statement(s) : none  
Supplemental Hazard Statements : none  
Caution : Substance not yet tested completely.



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Other Hazards	:	none
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## 4 FIRST AID MEASURES

After Inhalation	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact	:	Wash off with soap and plenty of water. Consult a physician.
After eye contact	:	Flush eyes with water as a precaution.
After swallowing	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important symptoms and effects, both acute and delayed	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Indication of any immediate medical attention and special treatment needed	:	no data available

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## 5 FIRE - FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	:	Sulphur oxides, Molybdenum oxides.
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
Further Information	:	No data available.

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## 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
Environmental-protection	:	Do not let product enter drains.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## 7 HANDLING AND STORAGE

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. Normal measures for preventive fire protection.
Conditions for safe storage, including any incompatibilities	:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Specific end users	:	No data available

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## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameter	:	Compnents with workplace control parameters
<b>Exposure Controls</b>		
Appropriate engineering controls	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment</b>		
Eye/face protection	:	Safety glasses with side-shields of conforming to EN166 Use equipment for eye protection tested and approved under appropriate standards such as NIOSH (US) or EN 166(EU).
Skin Protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it.
Body Protection	:	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substnace at the specific workplace.



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Respiratory Protection	:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respiratory. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
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## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance		<b>Form</b> : Powder <b>Colour</b> : Grey
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	No data available
Melting Point/Freezing point	:	2.375 ° C
Initial Boiling point and boiling range	:	No data available
Flash Point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available
Vapour Pressure	:	No data available
Vapour Density	:	No data available
Relative density	:	5,06 g/cm <sup>3</sup> at 25 °C
Water solubility	:	No data available
Partition coefficient: noctanol/water	:	No data available
Autoignition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available



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Oxidizing properties	:	No data available
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Other Safety information	:	No data available
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## 10 STABILITY AND REACTIVITY

Reactivity	:	No data available
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Chemical stability	:	No data available
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Conditions to be avoid	:	No data available
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Substance to be avoided	:	No data available
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hazardous decomposition products	:	Other decomposition products - no data available
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Possibility of hazardous reactions	:	No data available
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incompatible materials	:	Hydrogen peroxide, Strong oxidizing agents.
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## 11 TOXICOLOGICAL INFORMATION

Acute Toxicity	:	LC50 Inhalation - rat - 4 h - > 2.820 mg/m <sup>3</sup>
	:	Remarks: Lungs, Thorax, or Respiration: Other changes.

### Further toxicological Information

Carcinogenicity	:	IARC : 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.
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Eye Irritation test ( rabbit)	:	No data available
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After Inhalation	:	Harmful if inhaled. May cause respiratory tract irritation.
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After Skin contact	:	May be harmful if absorbed through skin. May cause skin irritation.
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After swallowing	:	No data available
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After swallowing of large amounts	:	No data available
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Further data	:	No data available
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Signs and symptoms of Exposure	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	:	RTECS: QA4697000

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## 12 ECOLOGICAL INFORMATION

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	No data available
Other adverse effects	:	No data available

## 13 DISPOSAL METHOD

Waste treatment methods	:	
Product	:	Offer surplus and non - recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging	:	Dispose of as unused product.

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## 14 TRANSPORT INFORMATION

UN number	:	ADR/RID: -	IMDG: -	IATA: -
UN Proper shipping name	:	ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods
Transport hazard class(es)	:	ADR/RID: -	IMDG: -	IATA: -
Packaging group	:	ADR/RID: -	IMDG: -	IATA: -



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Environmental group	:	ADR/RID: - no      IMDGMarine pollutant: no IATA: -no
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## 15 REGULATORY INFORMATION

This safety datasheet compiles with the requirements of Regulation (EC) No. 1907/2006

Safety, health and environmental regulations/legislation specific for the substance or mixture : No data available

Chemical safety assessment : No data available

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## 16 OTHER INFORMATION

The information contained here in is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precaution. It does not represent a guarantee of the properties of the product.