CAS No: 1313-27-5 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
	:
EC index no	: 042-001-00-9
EC no	: 215-204-7
CAS No	: 1313-27-5
Product code	: 04700
Chemical structure	MoO3

1.2.	Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carcinogenicity, Category H351 2 Serious eye damage/eye H319 irritation, Category 2 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.3; R40 Xi; R36/37 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. **Label elements** Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS08 GHS07 Signal word (CLP) : Warning Hazard statements (CLP) : H319 - Causes serious eye irritation H335 - May cause respiratory irritation H351 - Suspected of causing cancer Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: MOLYBDENUM TRIOXIDE AR/ACS
CAS No)	: 1313-27-5
EC no		: 215-204-7
EC inde	ex no	: 042-001-00-9

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

1.1 Departmention of first sid measures	
4.1. Description of first aid measures	
First-aid measures general	: Suspected of causing cancer.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
r rotootion during mongriting	
SECTION 6: Accidental release measures	
SECTION 6: Accidental release measures	equipment and emergency procedures
SECTION 6: Accidental release measures 6.1. Personal precautions, protective	
SECTION 6: Accidental release measures 6.1. Personal precautions, protective	
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel	equipment and emergency procedures
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures	equipment and emergency procedures
SECTION 6: Accidental release measures6.1.Personal precautions, protective6.1.1.For non-emergency personnelEmergency procedures6.1.2.6.1.2.For emergency responders	equipment and emergency procedures : Evacuate unnecessary personnel.
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.1.2.	equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required.
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures	equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required.
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions 6.2.	equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required.
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions 6.2.	equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3.	equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Ventilate area.
 SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area. ment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills
 SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area. ment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills
SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area. ment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills
 SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area. ment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills
 SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area. ment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

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7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a dry place. Store in original container.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection Skin and body protection	: Chemical goggles or safety glasses : Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical a	
Physical state	: Solid
Molecular mass	: 143.94 g/mol
Colour	: Pale yellow to green.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 795 °C
Freezing point	: No data available
Boiling point	: 11500 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 4.692 g/cm ³
Density	. 4.052 g/cm ²

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Solubility	: Water: 0.107 g/100ml @ 180C
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ons
No additional information available	
10.4. Conditions to avoid	
Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition proc	lucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological eff	fects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity Carcinogenicity	: Not classified : Suspected of causing cancer.
<u>Caloniogonioky</u>	
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
. ,	
Specific target organ toxicity (repeated exposure)	: Not classified

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Aspiration hazard

: Not classified

SECTION 12: Ecological information			
12.1. Toxicity			
No additional information available			
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assess	sment		
No additional information available			
12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: Dispose of contents/container to		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / ADN			
14.1. UN number			
UN-No. (ADR)	: 3288		
UN-No. (IMDG)	: 3288		
UN-No.(IATA)	: 3288		
UN-No.(ADN)	: 3288		
UN-No. (RID)	: 3288		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: TOXIC SOLID, INORGANIC, N.O.S.		
Proper Shipping Name (IMDG)	: TOXIC SOLID, INORGANIC, N.O.S.		
Proper Shipping Name (IATA)	: TOXIC SOLID, INORGANIC, N.O.S.		
Proper Shipping Name (ADN)	: TOXIC SOLID, INORGANIC, N.O.S.		
Proper Shipping Name (RID)	: TOXIC SOLID, INORGANIC, N.O.S.		
Transport document description (ADR)	: UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III, (E)		
Transport document description (IMDG)	: UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III		

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Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 6.1 : 6.1
	6
IMDG	
Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 6.1 : 6.1
	6
ΙΑΤΑ	
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 6.1 : 6.1
	6
ADN	
Transport hazard class(es) (ADN) Danger labels (ADN)	: 6.1 : 6.1
	6
RID	
Transport hazard class(es) (RID) Danger labels (RID)	: 6.1 : 6.1
	: 6
14.4. Packing group	
Packing group (ADR) Packing group (IMDG)	: III : III

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Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
44.5 Environmental baranda	
14.5. Environmental hazards	
Dangerous for the environment	: No

Marine pollutant

Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: T5
Special provision (ADR)	: 274
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	· 60
	00
	3288
Tunnel restriction code (ADR)	: E
EAC code	: 2X
- Transport by sea	
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
MFAG-No	: 151

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- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provision (IATA)	: A3, A5
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T5
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: T5
Special provision (RID)	: 274
Limited quantities (RID)	: 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

MOLYBDENUM TRIOXIDE AR/ACS is not on the REACH Candidate List MOLYBDENUM TRIOXIDE AR/ACS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	:	Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 3; WGK No 3408)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Denmark		
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product
		Pregnant/breastfeeding women working with the product must not be in direct contact with the product
		The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Carc. 2	Carcinogenicity, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H351	Suspected of causing cancer	
R36/37	Irritating to eyes and respiratory system	
R40	Limited evidence of a carcinogenic effect	
Xi	Irritant	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product