

1 Identification Product identifier

Product name: Molybdenum(III) chloride	
Stock number: 14034 CAS Number:	
13478-18-7	
EC number: 236-775-9	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Manufacturer/Supplier. Alfa Aesar	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660_	
Tel: 800-323-0660 Fay: 800-322-4757	
Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS05	
Signal word Danger	
Hazard statements	
H314 Causes severe skin burns and eye damage. Precautionary statements	
P260 Do not breathe dust/fume/gas/mist/vanours/sprav	
P200 D01 D02 / D0 / D0 / D02 /	
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN FYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P405 Store locked up.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
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P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/hational/international regulations. WHNIS classification Dispose of contents/container in accordance with local/regional/hational/international regulations. WHNIS classification system Figure classification system WHNIS ratings (scale 0-4) (Hazardous Materials Identification System) WHNIS ratings (Scale 0-4) (Hazardous 1-1) Other hazards (Hazardo	ge 2)

(Contd. of page 1) After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen chloride (HCI) Molybdenum oxides Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: The product is not flammable Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from air. Store away from water/moisture. Store away from strong bases. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. This product is air sensitive. This product is air sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles Full face protection_ Body protection: Protective work clothing USA

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		(Contd. of page 2)		
9 Physical and chemical properties				
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor:	Powder Dark red Acidic			
Odor threshold:	Not determined.			
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable. Decomposes Not determined Not determined Not determined. Not determined Not determined Not determined. Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined.			
Viscosity: dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.			
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Air Water/moisture Bases Oxidizing agents Hazardous decomposition products: Hydrogen chloride (HCI) Molybdenum oxides				
11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes severe skin burns. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. Garcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Aspiration toxicity - No effects known. Aspiration toxicity - No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.				
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				

Recommendation: Disposal must be made according to official regulations.

	(Contd. of page 3)			
14 Transport information				
UN-Number	100220			
DOT, IMDG, IATA	UN3260			
UN proper shipping name DOT	Corrosive solid, acidic, inorganic, n.o.s. (Molybdenum(III) chloride)			
IMDG, IATA Transport hazard class(es)	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Mólybdenum(III) chloride)			
DOT				
A				
Class	8 Corrosive substances.			
Label Class	8 8 (C2) Corrosive substances			
Label	8			
IMDG, IATA				
<u>14</u> , 30,				
Class	8 Corrosive substances.			
Label	8			
Packing group DOT, IMDG, IATA	<i>III</i>			
Environmental hazards:	Not applicable.			
Special precautions for user	Warning: Corrosive substances			
EMS Number: Segregation groups	F-A,S-B Acids			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	le Not applicable.			
Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Molybdenum(III) chloride), 8, III			
15 Regulatory information				
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)				
Hazard pictograms				
GHS05				
Signal word Danger Hazard statements				
H314 Causes severe skin burns and eye damage. Precautionary statements				
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or bair): Take off immediately all contaminated clothing. Pinse skin with water/showor				
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P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up.				
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations				
All components of this product are listed in the U.S. Environmental Protection All components of this product are listed on the Canadian Non-Domestic Subs	tances List (NDSL).			
SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65				
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.				
Prop 65 - Developmental toxicity, famale Substance is not listed. Prop 65 - Developmental toxicity, famale Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.				
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals.				
Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the				
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the				
market and use must be observed. Substance is not listed				
Annex XIV of the REACH Regulations (requiring Authorisation for use) Su Chemical safety assessment: A Chemical Safety Assessment has not been	ibstance is not listed. carried out.			
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.				
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -				
	at concerning the International Carriage of Descensus Coode by Dead			
AUK: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation				
ADDreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Manitime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lettal concentration.50				
CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workneys Hazardous Materials Identification System (Conocla)				
WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent	(Contd. on page 5)			
	(Contra. on page 5)			

LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) (Contd. of page 4)

USA