

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Molybdenum(V) chloride: sc-253052



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:Molybdenum(V) chlorideProduct Number:sc-253052

Supplier:	Santa Cruz Biotechnology, Inc.
	2145 Delaware Avenue
	Santa Cruz, CA 95060
	800.457.3801 or 831.457.3800
Emergency:	ChemWatch
	Within the US & Canada: 877-715-9305
	Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

Emergency Overview OSHA Hazards Target Organ Effect. Toxic by ingestion. Corrosive. Carcinogen Target Organs Liver. Kidney GHS Classification Acute toxicity, Oral (Category 5) Skin corrosion (Category 1B) Serious eye damage (Category 1) Specific target organ toxicity - single exposure (Category 2) GHS Label elements, including precautionary statements

Pictogram



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Signal word
                                Danger
Hazard statement(s)
      H303
                                May be harmful if swallowed.
      H314
                                Causes severe skin burns and eye damage.
      H371
                                May cause damage to organs.
Precautionary statement(s)
      P260
                                Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
                                Wear protective gloves/ protective clothing/ eye protection/ face protection.
      P280
      P305 + P351 + P338
                                IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
                                lenses, if present and easy to do. Continue rinsing.
      P310
                                Immediately call a POISON CENTER or doctor/ physician.
HMIS Classification
      Health hazard:
                                3
      Chronic Health Hazard:
                                *
      Flammability:
                                0
      Physical hazards:
                                0
NFPA Rating
      Health hazard:
                                3
      Fire:
                                0
      Reactivity Hazard:
                                0
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Potential Health Effects

Inhalation:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous
	membranes and upper respiratory tract.
Skin:	May be harmful if absorbed through skin. Causes skin burns.
Eyes:	Causes eye burns.
Ingestion:	Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula:	CI5Mo
Molecular Weight:	273.21

Component		Concentration
Molybdenum pentachl	oride	
CAS-No.	10241-05-1	-
EC-No.	233-575-3	
Molybdenum trioxide		
CAS-No.	1313-27-5	5 - 10 %
EC-No.	215-204-7	
Index-No.	042-001-00-9	

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions - Hydrogen chloride gas, molybdenum oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. 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.

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.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Air and moisture sensitive. Handle and store under inert gas. Keep in a dry place. Desiccate at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis	
Molybdenum pentachloride	10241-05-1	TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
·		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
Molybdenum trioxide	1313-27-5	TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
Remarks	Lower Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans				
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
	See Appendix D - Substances with No Established RELs				

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand 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.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	powder
Melting point/freezing point	194 °C (381 °F) - lit.
Boiling point	268 °C (514 °F) - lit.
Autoignition temperature	no data available

pH Flash point Ignition temperature Lower explosion limit no data available not applicable no data available no data available Upper explosion limit Relative vapor density Odor Threshold Density no data available no data available no data available 2.928 g/mL at 25 °C (77 °F) Water solubility Odor Evaporation rate Partition coefficient: n-octanol/water no data available no data available no data available no data available

Vapor pressure: 175 hPa (131 mmHg) at 250 °C (482 °F); 2.33 hPa (1.75 mmHg) at 25 °C (77 °F)

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions no data available Conditions to avoid Air. Avoid moisture. Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions - Hydrogen chloride gas, molybdenum oxides Other decomposition products no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50: no data available Inhalation LC50: no data available Dermal LD50: no data available Other information on acute toxicity: no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available 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. No component of this product present at levels greater than or equal to 0.1% is identified as a NTP: known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a OSHA: carcinogen or potential carcinogen by OSHA. **Reproductive toxicity** no data available Teratogenicity no data available Specific target organ toxicity - single exposure (Globally Harmonized System) no data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available Aspiration hazard

no data available

Potential health effects

 Inhalation:
 May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

 Skin:
 May be harmful if absorbed through skin. Causes skin burns.

 Eyes:
 Causes eye burns.

 Ingestion:
 Toxic if swallowed.

 Signs and Symptoms of Exposure
 Cough. Shortness of breath. Headache. Nausea. Vomiting

 Synergistic effects
 no data available

 Additional Information
 RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity no data available Bioaccumulative potential no data available PBT and vPvB assessment no data available Persistence and degradability no data available Mobility in soil no data available Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

Class: 8	Packing group: III	
ım pentachloride		
Class: 8	Packing group: III	EMS-No: F-A, S-B
NUM PENTACHLORIDE		
Class: 8	Packing group: III	
ım pentachloride		
1	m pentachloride Class: 8 NUM PENTACHLORIDE Class: 8	Class: 8 Packing group: III NUM PENTACHLORIDE Class: 8 Packing group: III

15. REGULATORY INFORMATION

OSHA Hazards	
Target Organ Effect. Toxic by ingestion. Corrosive. Carcinogen	
SARA 302 Components	
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Components	
The following components are subject to reporting levels established by SARA Title III, Section 313:	
Molybdenum trioxide CAS-No.: 1313-27-5	
SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard	

Acute Health Hazard. Chronic Health Hazard Massachusetts Right To Know Components Molybdenum trioxide

CAS-No.: 1313-27-5

Pennsylvania Right To Know Components

Molybdenum trioxide Molybdenum pentachloride

New Jersey Right To Know Components

Molybdenum trioxide Molybdenum pentachloride

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

8/16/2012

CAS-No.: 1313-27-5 CAS-No.: 10241-05-1

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