

Issuing Date 10/25/2011

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MOLYBDENUM REAGENT POWDER

Product Code(s) 6630

Synonyms none

Recommended Use Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.

Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency Telephone Number 24 Hour Emergency Number (CHEM-TEL):
USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Emergency Overview

May be harmful if swallowed
Product dust may be irritating to eyes, skin and respiratory system
Vapors may be irritating to eyes, nose, throat, and lungs

Appearance Off-white

Physical State Powder

Odor Pungent, Unpleasant - Skunk

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Ingestion, Eye contact, and, Skin contact.

Acute Toxicity

Eyes

Irritating to eyes. May cause redness, itching, and pain.

Skin

May be absorbed through the skin in harmful amounts. May cause irritation.

Inhalation

May be harmful if inhaled. May cause irritation of respiratory tract.

Ingestion

Harmful if swallowed. Ingestion of large quantities may cause gastrointestinal irritation and circulatory problems.

Chronic Effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Potassium Ethyl Xanthate	140-89-6	15-20
Potassium Chloride	7447-40-7	to 100%

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.
Ingestion	Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flash Point	96°C (205°F) CC for Potassium ethyl xanthate			
Suitable Extinguishing Media	Dry chemical or CO ₂ . DO NOT USE WATER.			
Explosion Data				
Specific Hazards Arising from the Chemical	Potassium ethyl xanthate can decompose violently at temperatures above 200°C. Thermal decomposition can lead to release of irritating and toxic gases and vapors.			
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus and protective suit.			
NFPA	Health Hazard 1	Flammability 0	Stability 1	Physical and Chemical Hazards -
HMIS	Health Hazard 2	Flammability 0	Stability 1	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes, and clothing. Refer to Section 8.
Methods for Containment	Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to drain.
Methods for Cleaning Up	Use personal protective equipment. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid breathing dust. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Separate from acids and alkalis. Keep away from oxidizing agents. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Ethyl Xanthate 140-89-6	None Known	None Known	None Known
Potassium Chloride 7447-40-7	None Known	None Known	None Known

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Provide appropriate exhaust ventilation at places where dust is formed.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields. Goggles.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

Maintain adequate ventilation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off-white	Odor	Pungent, Unpleasant - Skunk
Physical State	Powder	pH	6 (0.1g/10mL water)
Flash Point	96°C (205°F) CC for Potassium ethyl xanthate		

Vapor Pressure	No data available	Vapor Density	No data available
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10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage.

Incompatible Products Strong acids. Strong bases. Oxidizing agents.

Conditions to Avoid Exposure to air or moisture over prolonged periods. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous Decomposition Products Potassium Oxides. Oxides of Chlorine. Carbon oxides (COx). Sulfur oxides (SOx).

Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Ethyl Xanthate	1700 mg/kg (Rat)	None Known	None Known
Potassium Chloride	2600 mg/kg (Rat)	None Known	None Known

Chronic Toxicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium Ethyl Xanthate	None Known	None Known	None Known	None Known
Potassium Chloride	None Known	None Known	None Known	None Known

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Potassium Ethyl Xanthate	None Known	None Known	None Known
Potassium Chloride	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Potassium Ethyl Xanthate	None Known	None Known	None Known	None Known
Potassium Chloride	EC50 = 2500 mg/L 72 h	LC50= 2010 mg/L Lepomis macrochirus 96 h	None Known	EC50 = 825 mg/L 48 h

Chemical Name	Log Pow
Potassium Ethyl Xanthate	None Known
Potassium Chloride	None Known

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Dispose of contents/container in accordance with local regulation.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium Ethyl Xanthate - 140-89-6	None Known	None Known	None Known	None Known
Potassium Chloride - 7447-40-7	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION**DOT** Not regulated**IATA** Not regulated**IMDG/IMO** Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Potassium Ethyl Xanthate 140-89-6 (15-20)	Present	X	X	2-1787	X	KE-04748	X	X
Potassium Chloride 7447-40-7 (to 100%)	Present	X	X	1-228	X	KE-29086	X	X

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Potassium Ethyl Xanthate	140-89-6	15-20	None Known
Potassium Chloride	7447-40-7	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Ethyl Xanthate 140-89-6 (15-20)	None Known	None Known	None Known	None Known
Potassium Chloride 7447-40-7 (to 100%)	None Known	None Known	None Known	None Known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs: .

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Potassium Ethyl Xanthate	140-89-6	15-20	None Known	Group V	None Known	None Known
Potassium Chloride	7447-40-7	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Potassium Ethyl Xanthate	None Known	None Known
Potassium Chloride	None Known	None Known

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Potassium Ethyl Xanthate	140-89-6	None Known
Potassium Chloride	7447-40-7	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium Ethyl Xanthate	X	None Known	X	None Known	None Known
Potassium Chloride	None Known	None Known	None Known	None Known	None Known

International Regulations

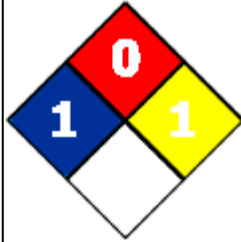

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Potassium Ethyl Xanthate	None Known	None Known
Potassium Chloride	None Known	None Known

Canada

Component	WHMIS Hazard Class
Potassium Ethyl Xanthate 140-89-6 (15-20)	Not determined
Potassium Chloride 7447-40-7 (to 100%)	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Fire Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">1</td> </tr> </table>	Health Hazard	2	Fire Hazard	0	Reactivity	1		
Health Hazard	2								
Fire Hazard	0								
Reactivity	1								

Prepared By Regulatory Affairs Department

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Revision Note
Initial Release

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS