

Molybdic Acid, 85%, GR

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Molybdic Acid, 85%, GR

Product Code MX1604

Manufacturer EMD Chemicals Inc.

P.O. Box 70

480 Democrat Road

Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was

EM Industries, Inc. or EM Science, Division of

EM Industries, Inc.

Effective Date 3/3/2003

For More Information Call

856-423-6300 Technical Service

Monday-Friday: 8:00 AM – 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC

(USA)

613-996-6666 CANUTEC

(Canada)

24 Hours/Day: 7 Days/Week

Synonym None.

Material Uses Analytical reagent.

Chemical Family Inorganic salt.

Section 2. Composition and Information on Ingredients

Component

CAS # % by Weight

Molybdic Acid

7782-91-4 85-100

Section 3. Hazards Identification

Physical State and Appearance Solid. (Powder.)

Emergency Overview WARNING!

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
MAY BE HARMFUL IF INHALED OR SWALLOWED.

Routes of Entry Inhalation. Ingestion.

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Skin Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Hazardous in case of inhalation (lung irritant). May be hazardous in case of inhalation.

Ingestion May be hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Effects

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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Spill Kit Information

No specific spill kit required for this product.

Section 7. Handling and Storage

Handling

Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container closed.

Storage

Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing

(Pictograms)

Personal Protection

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A

in Case of a Large

spill self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

Molybdic Acid

Exposure Limits

AUVA (Austria, 1995).

PEAK: 50 mg/m³ 1 times per shift, Period: 30 minute(s).

MAK: 5 mg/m³

Belgium Minister of Labour (Belgium, 1998).

VL: 5 mg/m³

SUVA (Switzerland, 1997).

MAK: 5 mg/m³

DK-Arbejdstilsynet (Denmark, 1996).

GV: 10 mg/m³

Tyterveyslaitos (Finland, 1998).

TWA: 5 mg/m³

INRS (France, 1996).

VLE: 10 mg/m³

VME: 5 mg/m³

National Authority for Occupational Safety/Health (Ireland, 1999).

STEL: 10 mg/m³

OEL: 5 mg/m³

Arbeidsinspectie (Netherlands, 1999).

TGG 8 uur: 5 mg/m³

N-Arbeidstilsynet (Norway, 1996).

AN: 10 mg/m³

AFS (Sweden, 1996).

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NGV: 10 mg/m³

EH40–OES (United Kingdom (UK), 1997).

STEL: 10 mg/m³

MEL: 5 mg/m³

ACGIH (United States, 1994).

TWA: 5 mg/m³ Form: Soluble

OSHA Final Rule (United States, 1989).

TWA: 5 mg/m³ Form: Soluble

Section 9. Physical and Chemical Properties

Odor	Not available.
Color	White.
Physical State and Appearance	Solid. (Powder.)
Molecular Weight	Not applicable.
Molecular Formula	Not applicable.
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	Not available.
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:	Molybdic Acid	Not available.
Toxicity	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	

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Acute Effects on Humans Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). May be hazardous in case of inhalation. May be hazardous in case of ingestion.

Synergetic Products Not available.

(Toxicologically)

Irritancy Draize Test: Not available.

Sensitization Not available.

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Toxicity to Not available.

Reproductive

System

Teratogenic Effects Not available.

Mutagenic Effects Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Section 13. Disposal Considerations

EPA Waste Not available.

Number

Treatment Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification Proper Shipping Name: CHEMICALS, N.O.S.

RQ: Not applicable.

TDG Classification Not available.

IMO/IMDG Classification Proper Shipping Name: CHEMICALS, N.O.S.

RQ: Not applicable.

ICAO/IATA Classification Proper Shipping Name: CHEMICALS, N.O.S.

RQ: Not applicable.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: Molybdic Acid

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

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SARA 311/312 MSDS distribution – chemical inventory – hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Class D–2B: Material causing other toxic effects (TOXIC).

CEPA DSL: Molybdic Acid

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

EINECS Molybdic Acid 231–970–5

DSCL (EEC) R37/38– Irritating to respiratory system and skin.

R41– Risk of serious damage to eyes.

International Lists Australia (NICNAS): Molybdic Acid

Japan (MITI): Molybdic Acid

Korea (TCCL): Molybdic Acid

Philippines (RA6969): Molybdic Acid

China: No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

Section 16. Other Information

**National Fire
Protection
Association
(U.S.A.)**

**0 Fire
20 Hazard
Health
Reactivity
Specific
Hazard**

Other Special Contains a minimum of 85% as MoO₃.

Considerations

Changed Since Last

Revision +

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent

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