

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: L-12964
Product Name: Solution 800 Low Friction Moly Lubricant
Company Name: MRO Solutions, LLC
5645 W. Howard St.
Niles, IL 60714
Phone Number: +1 (847)588-2480
Web site address: <http://www.mrosolutions.com/>
Emergency Contact: CHEMTREC +1 (800)424-9300

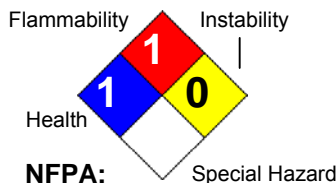
2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 1



GHS Signal Word: **Danger**
GHS Hazard Phrases: H315 - Causes skin irritation.
H318 - Causes serious eye damage.
GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing and wash before re-use. P332+313 - If skin irritation occurs, get medical advice/attention.
P305+351+338 - 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.
P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.
GHS Storage and Disposal Phrases: P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.

Hazard Rating System:



Potential Health Effects (Acute and Chronic): Prolonged or repeated skin contact may cause dermatitis.
Inhalation: May cause irritation to the respiratory tract. Inhalation of dusts at levels above recommended exposure limits may cause a metallic or sweet taste.
Skin Contact: May cause mild skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis.
Eye Contact: Dust may cause mechanical irritation. May cause tearing, redness, and swelling. May result in corneal injury. May cause eye burns.
Ingestion: No hazard expected in normal industrial use. May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.



3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
64742-52-5	Aliphatic petroleum distillate	47.0 %
1317-33-5	Molybdenum disulfide	30.0 %
1305-78-8	Calcium oxide	22.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical attention immediately.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Get medical attention if irritation persists. Wash contaminated clothing separately before reuse.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid immediately.
In Case of Ingestion:	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Call a poison control center.
Signs and Symptoms Of Exposure:	Symptoms may not be readily apparent. Get medical advice/attention.
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt:	302 F (150 C) Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Suitable Extinguishing Media:	Foam, CO ₂ , Dry Chemical, Water Fog. If water is used, fog nozzles are preferred.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Use water spray to keep fire-exposed containers cool.
Flammable Properties and Hazards:	Fire conditions can result in the formation of carbon monoxide and carbon dioxide, oxides of sulfur, oxides of molybdenum. calcium hydroxide.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Do not empty into drains. Material that cannot be recovered or reused should be disposed of in accordance with all Federal, State and Local regulations.
Steps To Be Taken In Case Material Is Released Or Spilled:	Spills/Leaks: Provide ventilation. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.



SAFETY DATA SHEET

Solution 800 Low Friction Moly Lubricant

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Avoid contact with skin and eyes. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.

Do not reuse empty containers without first having them commercially cleaned or reconditioned. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Store away from heat. Store in a tightly closed container. Keep container closed when not in use.

Other Precautions: Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
64742-52-5	Aliphatic petroleum distillate	No data.	No data.	No data.
1317-33-5	Molybdenum disulfide	No data.	No data.	No data.
1305-78-8	Calcium oxide	PEL: 5 mg/m3	TLV: 2 mg/m3	No data.

Respiratory Equipment (Specify Type): Not required under normal use conditions. Avoid breathing vapors or dusts. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Eye Protection: Safety glasses, chemical goggles, and/or face shield should be worn.

Protective Gloves: Not required under normal use conditions. Solvent resistant gloves required for prolonged or repeated contact.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron.

Engineering Controls (Ventilation etc.): Use adequate general or local exhaust ventilation to minimize exposure levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Work/Hygienic/Maintenance Practices: General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [] Liquid [X] Solid

Appearance and Odor: Appearance: Metallic. Gray. Paste.
Odor: Slight. Petroleum-like.

Melting Point: No data.

Boiling Point: 500 F (260 C)

Autoignition Pt: No data.

Flash Pt: 302 F (150 C) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.49

Density: NA



Solution 800 Low Friction Moly Lubricant

Printed: 05/05/2015

Revision: 05/05/2015

Supersedes Revision: 06/22/2007

Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	Heavier than air
Evaporation Rate:	Slower than ether
Solubility in Water:	NIL
Saturated Vapor Concentration:	NA
Viscosity:	NA
pH:	NA
Percent Volatile:	No data.

10. STABILITY AND REACTIVITY

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Excess heat, flames and sparks. Incompatible materials.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Hydrogen peroxides, Acids, Carbon dioxide, Halogens, Hydrogen fluoride, Ethanol. chlorine trifluoride, fluorine, phosphorus pentoxide, calcium chloride, potassium nitrate, metallic halides, hydrofluoric acid.
Hazardous Decomposition or Byproducts:	Fire conditions can result in the formation of carbon monoxide and carbon dioxide, oxides of sulfur, oxides of molybdenum. calcium hydroxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available. Other Studies: CAS# 64742-52-5: Acute toxicity, LD, Oral, Rat, > 5.0 mg/kg
Irritation or Corrosion:	Other Studies: CAS# 64742-52-5: Standard Draize Test, Skin, Species: Rabbit, 500.0 mg.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	Environmental: No information available. Physical: No information available. Other: Do not empty into drains.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.



SAFETY DATA SHEET

Solution 800 Low Friction Moly Lubricant

Page: 5 of 5
 Printed: 05/05/2015
 Revision: 05/05/2015
 Supersedes Revision: 06/22/2007

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: NOT REGULATED FOR DOMESTIC TRANSPORT.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
64742-52-5	Aliphatic petroleum distillate	No	No	No
1317-33-5	Molybdenum disulfide	No	No	No
1305-78-8	Calcium oxide	No	No	No

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

64742-52-5	Aliphatic petroleum distillate	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
1317-33-5	Molybdenum disulfide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
1305-78-8	Calcium oxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 0325; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

CAS # Hazardous Components (Chemical Name)

International Regulatory Lists

64742-52-5	Aliphatic petroleum distillate	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
1317-33-5	Molybdenum disulfide	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes
1305-78-8	Calcium oxide	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes

16. OTHER INFORMATION

Revision Date: 05/05/2015

Preparer Name: Crystal Maira

Additional Information: No data available.

Company Policy or Disclaimer: Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. 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. Users should Users should make their own investigations to determine the suitability of the information for their particular purposes.