

PRODUCT NAME: SOLUTION 800 LOW FRICTION MOLY LUBRICANT
PRODUCT CODE: L-12964

HMIS CODES: H F R P
1 1 0

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SECTION I - DISTRIBUTOR IDENTIFICATION
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DISTRIBUTOR'S NAME : MRO SOLUTIONS
ADDRESS : 5645 W. HOWARD
NILES, IL 60714

EMERGENCY PHONE : 1-800-424-9300 DATE PRINTED : 02/22/99
INFORMATION PHONE : 1-847-588-2480 NAME OF PREPARER : ESP

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SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION
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REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
MOLYBDENUM DISULFIDE	1317-33-5		64
OSHA TWA: 10 MG/M3 (TOTAL DUST); ACGIH TWA: 10 MG/M3 (TOTAL DUST)			
LUBRICATING GREASE	MIXTURE	0.01 68	30
OSHA PEL; 1 MG/M3			
PETROLEUM OIL	64742-52-5	0.01 68	4
OSHA PEL: 5.0 MG/M3, : OIL MIST			

*** No toxic chemical(s) subject to the reporting requirements of section 313
of Title III and of 40 CFR 372 are present. ***

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS
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BOILING RANGE: 500 deg F SPECIFIC GRAVITY (H2O=1): 1.87
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: NIL
APPEARANCE AND ODOR: METALLIC GRAY-COLORED HEAVY PASTE; SLIGHT PETROLEUM ODOR

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA
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FLASH POINT: 302 deg F METHOD USED: P-M
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9 UPPER: 7

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD-UP AND EXPLOSION WHEN
EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERRED. WEAR GOGGLES AND
SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

KEEP CONTAINERS FROM HEAT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO
EXTREME HEAT. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD.
SYMPTOMS MAY NOT BE READILY APPARENT. OBTAIN MEDICAL ATTENTION.

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SECTION V - REACTIVITY DATA
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STABILITY: STABLE
CONDITIONS TO AVOID
PROLONGED EXPOSURE TO HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID)
HYDROGEN PEROXIDE, STRONG OXIDIZERS, POTASSIUM NITRATE.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MAY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE AND
OTHER TOXIC FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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SECTION VI - HEALTH HAZARD DATA
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INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INHALATION OF DUST AT LEVELS ABOVE RECOMMENDED EXPOSURE LIMITS MAY CAUSE A METALLIC OR
SWEET TASTE AND MAY BE IRRITATING TO EYES AND RESPIRATORY TRACT.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION. EYES: CONTACT MAY CAUSE MECHANICAL EYE IRRITATION, TEARING, AND REDNESS.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
NOT EASILY ABSORBED. NONE KNOWN.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
IRRITATING TO MOUTH, THROAT, AND STOMACH. MAY CAUSE NAUSEA AND/OR VOMITING.

HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE: EYE IRRITANT. POSSIBLE SKIN IRRITANT. HARMFUL IF SWALLOWED.
CHRONIC: PREEXISTING PULMONARY AND DERMATOLOGICAL DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO HAZARDOUS COMPONENTS. THIS PRODUCT CONTAINS ENCAPSULATED MOLYBDENUM DISULFIDE. NO EXPOSURE TO FREE MOLYBDENUM DISULFIDE IS ANTICIPATED DURING NORMAL APPLICATION OF THIS PRODUCT. MOLY DUST MAY BE RELEASED BY GRINDING OR MACHINING OF CURED COMPOUND OR COATED SURFACE. INSOLUBLE MOLYBDENUM COMPOUNDS ARE CHARACTERIZED BY LOW TOXICITY. REFER TO PROTECTIVE EQUIPMENT SECTION FOR APPROPRIATE PROTECTIVE MEASURES.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES
EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. INHALATION: NO SPECIFIC TREATMENT IS NECESSARY BECAUSE THIS MATERIAL IS NOT LIKELY TO BE HAZARDOUS BY INHALATION. IF EXPOSED TO EXCESSIVE LEVELS OF DUSTS OR FUMES, REMOVE TO FRESH AIR AND GET MEDICAL ATTENTION IF COUGH OR OTHER SYMPTOMS DEVELOP. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE VICTIM A GLASS OF WATER OR MILK. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. CLEAN UP AREA WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BEFORE ATTEMPTING CLEAN UP, REFER TO OTHER SECTIONS OF THIS MSDS FOR HAZARD CAUTION INFORMATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
STORE IN COOL, DRY, WELL-VENTILATED AREAS. STORE AWAY FROM HEAT. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. DO NOT TAKE INTERNALLY. SEE PRODUCT LABEL FOR ADDITIONAL INFORMATION.

OTHER PRECAUTIONS
FOR INDUSTRIAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN. FOLLOW GENERAL INDUSTRIAL SAFETY PRACTICES DURING USE. DO NOT REUSE EMPTY CONTAINERS WITHOUT FIRST HAVING THEM COMMERCIALY CLEANED OR RECONDITIONED. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION
NONE UNDER NORMAL USE. AVOID BREATHING VAPORS. 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.

VENTILATION
SUFFICIENT TO PREVENT INHALATION OF VAPORS. GENERAL DILUTION AND/OR LOCAL EXHAUST VENTILATION IN VOLUME OR PATTERN TO KEEP PEL/TLV OF MOST HAZARDOUS INGREDIENT BELOW ACCEPTABLE LIMIT AND LEL BELOW STATED LIMIT.

PROTECTIVE GLOVES
NONE UNDER NORMAL USE. SOLVENT RESISTANT REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION

USE OF SAFETY GLASSES WITH SPLASH GUARDS OR FULL FACE SHIELD IS RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

USE OF SOLVENT RESISTANT APRONS OR OTHER CLOTHING IS RECOMMENDED.

WORK/HYGIENIC PRACTICES

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED. FOLLOW GENERAL INDUSTRIAL SAFETY PRACTICES DURING USE.

===== SECTION IX - DISCLAIMER =====

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