

PRODUCT NAME: SOLUTION 2000 PREMIUM COPPER ANTI-SEIZE
PRODUCT CODE: L-12960

HMIS CODES: H F R P
1 1 0

===== SECTION I - DISTRIBUTOR IDENTIFICATION =====

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

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
LUBRICATING GREASE OSHA PEL; 1 MG/M3	MIXTURE	0.01 68	38
PETROLEUM OIL, PARAFFINIC OIL OSHA PEL: 5.0 MG/M3, AS OIL MIST	64742-65-0	0.001 77	23
* COPPER; COPPER COMPOUND OSHA PEL: 1.0 MG/M3, : AS DUST	7440-50-8		21
NATURAL GRAPHITE OSHA PEL: 15 mg/m3 (AS RESPIRABLE DUST); 10 mg/m3 (TWA)	7782-42-5		17

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 500 deg F SPECIFIC GRAVITY (H2O=1): 1.24
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: NIL
APPEARANCE AND ODOR: COPPER-COLORED HEAVY PASTE; SLIGHT PETROLEUM ODOR

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 325 deg F METHOD USED: COC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9 UPPER: 10

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.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE
CONDITIONS TO AVOID
PROLONGED EXPOSURE TO HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG LEWIS OR MINERAL ACIDS. STRONG BASES OR OXIDIZERS. NITRATES, NITRITES, CHLORINATED HYDROCARBONS, CHLORIDES, PALLADIUM, SELENIUM, MANGANESE, MAGNESIUM, POTASSIUM CHLORATE, SODIUM CARBONATE, SULFATES, DIBORANE.

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

===== SECTION VI - HEALTH HAZARD DATA =====

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. REPEATED OR PROLONGED INHALATION OF GRAPHITE OR CARBON DUSTS MAY CAUSE PULMONARY FIBROSIS, EMPHYSEMA, AND PNEUMOCONIOSIS. THE SEVERITY OF THESE EFFECTS IS GREATLY INFLUENCED BY THE PRESENCE OF OTHER HARMFUL MINERAL DUSTS, MOST NOTABLY CRYSTALLINE SILICA. THIS PRODUCT CONTAINS ENCAPSULATED METAL POWDER WHICH CONTAINS COPPER AND ZINC. NO EXPOSURE TO FREE METAL POWDER IS ANTICIPATED DURING NORMAL APPLICATION OF THIS PRODUCT. METAL POWDER MAY BE RELEASED BY GRINDING OR MACHINING OF CURED COMPOUND OR COATED SURFACE. REPEATED OR PROLONGED EXPOSURE TO METAL DUST MAY CAUSE METAL-FUME FEVER, METALLIC TASTE, AND DISCOLORATION OF THE SKIN AND HAIR. 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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