



ANTI-SEIZE TECHNOLOGY
A.S.T. Industries, Inc.

| H.M.I.S. | |
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MOLY - LIT™

MOLY & GRAPHITE BASED ANTI-SEIZE COMPOUND

STOCK # ('S): 12002, 12003, 12012, 12015, 12016, 12018, 12032, 12035, 12050, 12130, 12500

MATERIAL SAFETY DATA SHEET

Section 1- Chemical Product and Company Identification

Manufacture: Anti-Seize Technology
2345 N. 17th Ave.
Franklin Park, IL 60131

Phone: 847-455-2300

Emergency Phone, 24 hr: Infotrac @ 1-800-535-5053 or 352-323-3500

Section 2-Composition/ Information on Ingredients

| | CAS # | OSHA PEL, | TLV | SARA III | PROP 65, | PERCENT |
|-------------------------------|-------------|-----------|-----------|----------|----------|----------|
| MOLYBDENUM DISULFIDE, AS DUST | 1317-33-5 | 15mg/m31 | SAME | NO | NO | 10 to 30 |
| LEAD MONOXIDE | 1317-36-8 | 0.05mg/m3 | 0.05mg/m3 | YES | YES | 15 to 25 |
| GRAPHITE | 7782-42-5 | 2.5 mg/m3 | SAME | NO | NO | 10 to 25 |
| PETROLEUM OIL | 64742--62-7 | 5mg/m3 | SAME | NO | NO | 50 TO 80 |

NOTE: LEAD MONOXIDE IS A LEAD COMPOUND. REFER TO FEDERAL REGISTER VOL. 43 #220, PAGE 53007 - 53014, NOV 14, 1978, STANDARD OCCUPATIONAL EXPOSURE TO LEAD. FEDERAL REGULATION CFR TITLE 29 1910.1025

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Section 3- Hazard Identification

ROUTES OF ENTRY: SKIN EYES INHALATION INGESTION

EMERGENCY OVERVIEW:

- THIS PRODUCT CONTAINS LEAD MONOXIDE WHICH POSSES A POTENTIAL HEALTH HAZARD. READ THE MSDS FOR ADDITIONAL INFORMATION.
- THIS PRODUCT IS NOT FLAMMABLE UNLESS IT IS PREHEATED TO TEMPERATURES OVER 400 F. IF INVOLVED IN A FIRE IT MAY EMIT TOXIC FUMES OF LEAD.
- EXCESSIVE AIRBORNE CONCENTRATIONS MAY PRESENT AN INHALATION AND INGESTION HAZARD. IF THIS PRODUCT IS USED IN HIGH TEMPERATURES WHERE THE OIL DECOMPOSES AND LEAVES A DRY FILM OF SOLIDS BEHIND, THEN A USER SHOULD AVOID WIRE BRUSHING A PART WHICH COULD RELEASE LEAD PARTICLES INTO THEIR ENVIRONMENT. UNDER THESE CIRCUMSTANCES A PROPER DUST MASK OR RESPIRATOR SHOULD BE USED.
- DANGER OF CUMULATIVE EFFECTS.
- HARMFUL IF SWALLOWED

HEALTH HAZARDS: THIS PRODUCT CONTAINS LEAD MONOXIDE. CHRONIC EXPOSURE COULD OCCUR THROUGH INGESTION OR POSSIBLY INHALATION OF THIS PRODUCT. INGESTION COULD OCCUR THROUGH TRANSFER FROM HAND TO MOUTH. SYMPTOMS OF CHRONIC LEAD EXPOSURE CAN INCLUDE INTENSIVE PERIODIC CRAMPS AND CONSTIPATION, NAUSEA AND VOMITING. EXCESSIVE EXPOSURE MAY AFFECT BLOOD, NERVOUS, DIGESTIVE, KIDNEY OR REPRODUCTIVE SYSTEMS. LEAD MONOXIDE IS A CUMULATIVE POISON. INCREASING AMOUNTS OF LEAD CAN BUILD UP IN THE BODY AND MAY REACH A POINT WHERE SYMPTOMS AND DISABILITIES OCCUR. SYMPTOMS INCLUDE ANEMIA, PALE SKIN, DECREASED STRENGTH, ABDOMINAL PAIN, SEVERE CONSTIPATION, NAUSEA, VOMITING AND PARALYSIS. IF THE CENTRAL NERVOUS SYSTEM IS AFFECTED SYMPTOMS INCLUDE SEVERE HEADACHE, CONVULSIONS, DELIRIUM, COMA AND POSSIBLE DEATH. CONTINUOUS EXPOSURE MAY RESULT IN DECREASED FERTILITY. LEAD IS A TERATOGEN. OVEREXPOSURE TO LEAD BY EITHER PARENT BEFORE PREGNANCY MAY INCREASE THE CHANCES OF MISCARRIAGE OR BIRTH DEFECTS. SEE SECTION 11 FOR TOXICOLOGICAL INFORMATION.

Section 4 – First Aid Measures

SKIN: WASH WITH SOAP AND WATER, USE A NAIL BRUSH PAYING PARTICULAR ATTENTION TO FINGER NAILS AND OPEN WOUNDS.

EYES: DO NOT RUB EYES. THIS PRODUCT COULD CAUSE SOME MECHANICAL IRRITATION IF GOTTEN INTO THE EYES AND RUBBED. FLUSH EYE WITH WATER FOR 15 MINUTES, LIFTING THE EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

INGESTION: IF INGESTED THIS PRODUCT IS NOT EXPECTED TO CAUSE AN ACUTE REACTION. THIS PRODUCT CONTAINS PETROLEUM OIL; **DO NOT INDUCE VOMITING** BECAUSE THE OIL MAY BE ASPIRATED INTO THE LUNGS. CONSULT A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR. DO NOT USE IN CONFINED AREAS AND HIGH TEMPERATURES WITHOUT LOCAL EXHAUST. SEEK IMMEDIATE MEDICAL ATTENTION.

CHEMICAL (S) LISTED AS CARCINOGENS

NPT: NO I.A.R.C.: NO OSHA: NO

Section 5 – Fire Fighting Measures

FLASH POINT AND METHOD USED: GREATER THAN 400 F., C.O.C.

FLAMMABLE LIMITS: LEL: NO DATA **UEL:** NO DATA

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: THIS COMPOUND WILL NOT BURN UNLESS IT IS PRE-HEATED. WATER FOG MAY BE USED TO COOL THE CONTAINERS BUT DO NOT SPRAY DIRECTLY INTO LARGE CONTAINERS OF BURNING LIQUIDS AS FROTHING MAY OCCUR. WEAR A "N.I.O.S.H" APPROVED ORGANIC VAPOR RESPIRATOR.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DENSE SMOKE AND NOXIOUS AND POSSIBLE TOXIC FUMES **MAY** BE GENERATED. RUPTURED CONTAINERS MAY CAUSE EXCESSIVELY SLIPPERY FLOORS

Section 6 – Accidental Release Measures

SPILL/ LEAKAGE PROCEDURES: PROTECT AGAINST IDENTIFIED HAZARDS THROUGH USE OF PERSONAL PROTECTION EQUIPMENT AND PROPER WORK AND HYGIENE PRACTICES. LIMIT FOOT AND VEHICULAR TRAFFIC TO MINIMIZE DISPERSION. THE SPILL SHOULD FIRST BE CONTAINED AND THE AREA SHOULD BE CLEANED USING CONCENTRATED DETERGENTS OR MINERAL SPIRIT LIKE SOLVENTS.

THIS MATERIAL IS CONSIDERED HAZARDOUS.

DURING SPILL CLEANUP, RESIDUAL WATER OR SOLVENT SHOULD BE CONTAINED AND COLLECTED FOR DISPOSAL. DO NOT ALLOW THE MATERIAL TO ENTER WATERWAYS.

Section 7 – Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: WEAR ALL SPECIFIED PERSONAL PROTECTION EQUIPMENT SUCH AS LATEX OR RUBBER GLOVES AND A SUITABLE DUST MASK IF APPLICABLE.

OTHER PRECAUTIONS: DO NOT INGEST, KEEP AWAY FROM CHILDREN.

Section 8 – Exposure Controls / Personal Protection

RESPIRATORY PROTECTION: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. IF THIS PRODUCT IS USED IN HIGH TEMPERATURE CONDITIONS WHERE THE PETROLEUM OIL BURNS OFF, LEAVING A FILM OF SOLID RESIDUE, A DUST RESPIRATOR IS RECOMMENDED TO MINIMIZE EXPOSURE TO LEAD MONOXIDE. AVOID WIRE BRUSHING RESIDUALS WHICH COULD CAUSE DUSTING.

PROTECTIVE GLOVES: NORMALLY NOT REQUIRED BUT RECOMMENDED. LATEX OR RUBBER PREFERRED

EYE PROTECTION: SAFETY GLASSES RECOMMENDED

WORK/HYGIENIC PRACTICES: USE GOOD STANDARD PRACTICES WHEN USING THIS MATERIAL. DO NOT EAT OR SMOKE WHILE USING, AND THOROUGHLY WASH WITH SOAP, WATER AND A NAIL BRUSH AFTER USING.

Section 9 – Physical and Chemical Properties

BOILING POINT: OVER 400 F

MELTING POINT: DOES NOT APPLY

VAPOR PRESSURE: NO DATA

EVAPORATION RATE: 0

APPEARANCE AND ODOR: BLUISH GRAY PASTE WITH GREASE LIKE ODOR

SOLUBILITY IN WATER: NIL

REACTIVITY IN WATER: NONE

SPECIFIC GRAVITY: 1.4

PERCENT VOLATILE: 0

Section 10 – Stability and Reactivity

STABILITY: (X) STABLE () UNSTABLE

CONDITIONS TO AVOID: STORAGE AROUND STRONG OXIDIZERS AND PEROXIDES

INCOMPATIBILITY: MAY REACT WITH STRONG OXIDIZING CHEMICALS.

HAZARDOUS DECOMPOSITION PRODUCTS: THE THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT UPON THE COMBUSTION CONDITIONS. NOXIOUS OR TOXIC FUMES MAY BE GENERATED SOME OF WHICH MAY BE TOXIC OR IRRITATING.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

Section 11 – Toxicological Information

SEE SECTION 2 FOR ADDITIONAL INFORMATION AND EXPOSURE LIMITS
TOXICITY DATA: LEAD AND LEAD COMPOUNDS ARE CLASSIFIED AS A3 CARCINOGENS BY AGIH. AND AS 2B CARCINOGENS BY IARC AND LISTED BY NTP AS AN ANTICIPATED CARCINOGEN. LEAD MONOXIDE IS NOT LISTED AS A CARCINOGEN BY OSHA, NIOSH OR DFG-MAK.

Section 12 – Ecological Information

THIS PRODUCT CONTAINS LEAD MONOXIDE WHICH CAN LEAD TO LEAD POISONING IF INGESTED IN LARGE OR SMALL QUANTITIES OVER LONG PERIODS.
LEAD METAL AND MONOXIDES ARE GENERALLY INSOLUBLE, ITS EXPOSURE TO AQUATIC AND TERRESTRIAL ENVIRONMENTS MAY LEAD TO THE RELEASE OF LEAD IN BIOAVAILABLE FORMS. IF RELEASED INTO WATER, LEAD AND LEAD COMPOUNDS WILL PARTLY SETTLE OUT DUE TO THEIR FAIRLY LOW SOLUBILITY AND PARTIALLY DISSOLVE. LEAD COMPOUNDS ARE NOT PARTICULARLY MOBILE IN THE AQUATIC ENVIRONMENT BUT CAN BE TOXIC FOR ORGANISMS, ESPECIALLY FISH, AT LOW CONCENTRATIONS. WATER HARDNESS, pH, AND DISSOLVED ORGANIC CARBON CONTENT ARE FACTORS WHICH REGULATE THE DEGREE OF TOXICITY. IN SOIL, LEAD AND ITS COMPOUNDS ARE GENERALLY NOT VERY MOBILE OR BIOAVAILABLE, AS THEY CAN BE STRONGLY ABSORBED ON SOIL PARTICLES, INCREASINGLY OVER TIME. IT ALSO FORMS COMPLEXES WITH ORGANIC MATTER AND CLAY MINERALS THAT LIMITS ITS MOBILITY. WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS NOT EXPECTED TO LEACH INTO GROUNDWATER.

Section 13 – Disposal Consideration

WASTE DISPOSAL: RE-BLEND SPILLED, UNUSED MATERIAL WHERE POSSIBLE OR TRANSFER BACK TO ITS ORIGINAL CONTAINER. EMPTY CONTAINERS MAY BE CONSIDERED HAZARDOUS WASTE AND MUST BE DISPOSED OF PROPERLY. FOLLOW ALL FEDERAL, STATE AND LOCAL GUIDELINES.

Section 14- Transport Information

SHIPMENT BY LAND: NOT REGULATED

SHIPMENT BY WATER: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9 UN 3077, PG III, MARINE POLLUTANT (LEAD OXIDE), ERG 171

SHIPMENT BY AIR: NOT REGULATED

EXCEPTION: UNDER 49CFR 171.8, THE PROPER SHIPPING DESCRIPTION FOR INDIVIDUAL PACKAGES CONTAINING ELEMENTAL LEAD METAL (< 100 MICROMETERS) IN EXCESS OF ITS REPORTABLE QUANTITIES (RQ) OF 10 LB. IS "ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., 9, UN3077, PG III, RQ (LEAD METAL) , ERG 171

WHMIS: CONTROLLED PRODUCT, CLASS D

Section 15 – Regulatory Information

CALIFORNIA PROPOSITION 65: LEAD COMPOUNDS
OZONE DEPLETING SUBSTANCES: NONE
SARA TITLE III: LEAD COMPOUNDS, ACUTE & CHRONIC
CERCLA: LEAD COMPOUNDS

RCRA: LEAD COMPOUNDS
DOT SHIPPING CLASS: NOT HAZARDOUS
TASCA INVENTORY: ALL INGREDIENTS LISTED
N.F.P.A. RATING: H-2, F-2, R-0

THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

Section 16 – Other Information:

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS OBTAINED FROM THE USE OF HIS PRODUCT. THEREFORE, BECAUSE THE PRODUCT MAY BE USED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO LIABILITY FOR ITS USE.

DATE: 1/15/2009

MOLY LIT, 16 PART ISO MSDS