Material Safety Data Sheet
Moly-Lube NC

Banner Labs
PO Box 41388
Houston, TX 77241

DATE PREPARED: 9/25/2012
REVISION DATE: 11/9/2012
CHEM-TEL: 800-225-3924
PRODUCT NUMBER: 1777-20

SECTION I - IDENTIFICATION

PRODUCT NAME: Moly-Lube NC
PRODUCT USE: Dry Lubricant
PRODUCT CODE: 1777-20

SECTION II – COMPOSITION/HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV
Acetone	67-64-1	1000 ppm	750ppm
Isopropyl Alcohol	67-63-0	400ppm	200 ppm
Propane/N-Butane	68476-86-8	1000 ppm	600 ppm
Toluene	108-88-3	200 ppm	20 ppm
Glycol Ether DPM	34590-94-8	100 ppm	100 ppm

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Aerosol under pressure do not expose to high temperatures above 120° F or store in direct sunlight may develop pressure and cause can to burst.
ROUTES OF ENTRY: Ingestion, Inhalation, Skin
EYES: Redness, irritation, causes temporary corneal opacity
INGESTION: nausea, diarrhea, vomiting, depending on the amount ingested.
INHALATION: Causes dizziness, anesthesia, possibly death if breathed directly.
SKIN: Causes severe irritation, localized defatting.
MEDICAL CONDITION AGGRAVATED: None known
CHRONIC HEALTH HAZARDS: May cause damage to the following organs: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).
CARCINOGENICITY:
OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** N/A

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes while holding eyelids open. Seek immediate medical attention.
INGESTION: nausea, diarrhea, vomiting, depending on the amount ingested.
INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration. Seek immediate medical attention.
SKIN: Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation develops.
NOTE TO PHYSICIAN: None

SECTION V – FIRE-FIGHTING MEASURES

FLASH POINT: Not Tested
FLAMMABLE LIMITS IN AIR, (% BY VOLUME) UPPER: N/A **LOWER:** N/A
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water spray for cooling.
SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Use water spray only to cool exposed containers.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure exposure to high temperatures above 120F can cause bursting.
HAZARDOUS COMBUSTION PRODUCTS: Not determined

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Wpe up with rag or use some absorbent clay material. remove any source of ignition. use non-sparking tools and equipment.
WASTE DISPOSAL: Dispose of in accordance with local, State and Federal regulations. Do not puncture or incinerate container. Do not reuse empty container. Wrap container and place in trash collection.
RCRA STATUS: Waste solvent likely considered U220 (Toluene), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Do not use or store near heat, sparks, or open flame. Exposure to temperatures above 120 F may cause bursting. Do not puncture or incinerate container
OTHER PRECAUTIONS: Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product. Keep out of the reach of children

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Normal, forced ventilation required to meet TLV requirements. Local exhaust ventilation is generally preferred.

RESPIRATORY PROTECTION: Not required with normal use. Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.
PROTECTIVE CLOTHING: Safety glasses are always recommended when using chemicals. Impervious gloves such as neoprene or solvex can be used.
ADDITIONAL MEASURES: Wash hands after use

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black Liquid
PHYSICAL STATE: Liquid
FREEZING POINT: Not Tested
VAPOR DENSITY (AIR=1): >1
SPECIFIC GRAVITY (H2O=1): 0.87 @ 77° F
SOLIDS (%): N/A
VOLATILE ORGANIC COMPOUNDS (VOC): N/A
ODOR: Solvent odor
BOILING POINT: >150
VAPOR PRESSURE (mm Hg): 77.3 @ 77°F (25°C)
EVAPORATION RATE: >1
pH: N/A
SOLUBILITY IN WATER: 63%

SECTION X – STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: None known
INCOMPATIBILITY: Concentrated nitric & sulfuric acid mixtures, oxidizing materials, chloroform, alkalis, chlorine cmpnds, acids, plastics, rubber, coatings.
HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of Carbon
HAZARDOUS POLYMERIZATION: None Known

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Acetone - 67-64-1 - ORAL (LD50): Acute: 5800 mg/kg [Rat]. 3000 mg/kg [Mouse]. 5340 mg/kg [Rabbit]. VAPOR (LC50): Acute: 50100 mg/m 8 hours [Rat]. 44000 mg/m 4 hours [Mouse]. Isopropyl Alcohol - 67-63-0 - Oral LD50 (Rat) 5045 mg/kg, Oral LD50 (Rabbit) 5045 mg/kg,Dermal LD50 (Rabbit) 12800 mg/kg, LC50 (Rat) 16,000ppm 8hr; May cause reproductive/teratogenic effects (fertility, fetoxicity, developmental abnormalities(developmental toxin)) based on animal studies. Detected in maternal milk in human.
Reproductive Effects: DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Development toxin [POSSIBLE]. Detected in maternal milk in human. May cause damage to the following organs: kidneys, liver, skin, central nervous system (CNS).

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Acetone - 67-64-1 - Ecotoxicity in water (LC50): 5540 mg/l 96 hours [Trout]. 8300 mg/l 96 hours [Bluegill]. 7500 mg/l 96 hours [Fatthead Minnow]. 0.1 ppm any hours [Water flea]. this material is expected to readily biodegrade when released into the soil and is expected to evaporate quickly. It will also leach into the ground water and is expected to readily biodegrade. This material has a octanol-water partition coefficient of less than 3.0 and not expected to significantly bioaccumulate. Not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100mg/L.

Isopropyl Alcohol - 67-63-0 - Ecotoxicity in water (LC50): 100000 mg/l 96 hours [Fathead Minnow]. 64000 mg/l 96 hours [Fathead Minnow].IPA has high biochemical oxygen demand and potential to cause oxygen depletion in aqueous systems, IPA has a low potential to affect aquatic organisms, secondary waste treatment microbial metabolism, and germination of some plants. THOD: 2.40 g oxygen/g COD: 2.23 g oxygen/gBOD-5: 1.19-1.72 g oxygen/g

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with local, State and Federal regulations. Do not puncture or incinerate container. Do not reuse empty container. Wrap container and place in trash collection.

RCRA STATUS: Waste solvent likely considered U220 (Toluene), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Lubricating Oil Petroleum Base
HAZARD CLASS/DIVISION: ORM-D
PACKAGING GROUP: n/a

AIR SHIPMENT
PROPER SHIPPING NAME: Aerosols, Ltd. Qty. Class 2
UN/NA NUMBER: UN 1950
HAZARD CLASS/DIVISION: 2.1
PACKAGING GROUP: NONE

SHIPPING BY WATER:
VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: Aerosols, Ltd. Qty. Class 2
UN/NA NUMBER: UN 1950
NOTE: 2102
HAZARD CLASS/DIVISION: 2.1
PACKAGING GROUP: None

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None
SARA 311/312 HAZARD CATEGORIES: Flammable.
SARA 313 REPORTABLE INGREDIENTS: Toluene (108-88-3)
CLEAN WATER ACT: None
STATE REGULATIONS: Acetone - 67-64-1 - Connecticut hazardous material survey, Illinois toxic substances disclosure to employee act, Illinois chemical safety act, New York release reporting list, Rhode Island RTK, Pennsylvania RTK, Florida, Minnesota, Massachusetts RTK, Massachusetts spill list, New Jersey, New Jersey spill list, Louisiana spill reporting, California List of Hazardous Substances (8 CCR 339): Acetone TSCA 8(b) inventory: Acetone TSCA 4(a) final test rules: Acetone TSCA 8(a) IUR: Acetone

INTERNATIONAL REGULATIONS: Acetone - 67-64-1 - Australia, China, Europe (EINECS), Japan, Korea, United Kingdom, Canada, WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC). p. 6; DSCL (EEC): R11- Highly flammable. R36- Irritating to eyes. S9- Keep container in a well-ventilated place. S16- Keep away from ignition sources. S26- In case of eye contact, rinse immediately with plenty of water and seek medical advice.

NFPA HEALTH: 2
NFPA FLAMMABILITY: 3
NFPA REACTIVITY: 1
NFPA OTHER: N/A

HMIS HEALTH: 2
HMIS FLAMMABILITY: 3
HMIS REACTIVITY: 1
HMIS PROTECTION: B

SECTION XVI - ADDTIONAL INFORMATION

PREPARATION BY: John Holdren

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