

MATERIAL SAFETY DATA SHEET MSDS: BL 37000

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
CAS 68527-02-6

PRODUCT CODE: 55801-33

PRODUCT NAME: PENETRATING LUBRICANT

PRODUCT NAMES: BestLine Synthetic 101 Industrial Penetrating Lubricant, BestLine Synthetic No-Skweek Penetrating Lubricant.

PRODUCT USE: Extreme Pressure Synthetic Spray Lubricant & Penetrating Oil

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COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family: Blend of Synthetic Petroleum Products and Oxidation Inhibitors
Products Grades: N/A. CAS Registry No: N/A
Brand Names: BestLine Synthetic Spray Lubricant and Penetrating Oil
WHMIS Controlled: No
Product Use: Household, Automotive and Industrial Lubricant Spray
Hydrosomerized (Isodewaxed Group II +) HT Base Oils and Proprietary Additives (All synthetic Ingredients)

HAZARDOUS INGREDIENTS

Component Volume % CAS Number (68527-02-06) LD 50 LC 50/ 8052-41-3)
None
Oxidation Inhibitors and Detergents: PEL 4 MG/M3 TLV 4MG/M3
Vacuum Distilled Aliphatic Mineral Solvents 100 PPM

EMERGENCY OVERVIEW

Clear liquid. Avoid extreme temperatures.

HMIS Rating: HEALTH: 1 FLAMMABILITY: 2. REACTIVITY: 0. PPE: C

POTENTIAL HEALTH EFFECTS:

EYE: May produce a mild transient irritation.

SKIN: May produce mild irritation, which is readily reversible. Not known to be a sensitizer. Not readily absorbed through skin.

INGESTION: Not expected to produce toxic effect when ingested.

INHILATION: Under normal conditions, this product is nontoxic; however, under significant decomposition conditions, a mild to moderate irritation of the upper respiratory tract can occur due to the potential of a slight amount of hydrogen chloride gas.

CHRONIC EFFECTS: The toxicity profile would suggest a slight hazard to those chronically exposed to the product over a lengthy period of time. The liver is the probable target organ, should massive systemic

poising occur. Treat as synthetic motor oil or mineral oil.

SIGNS AND SYMPTOMS: May produce mild, reversible eye and skin irritation.

4. FIRST AID MEASURES

EYE: Immediately flush eyes with a direct stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: Wash contaminated area with soap and warm water and remove contaminated clothing. Do not use solvents for cleaning. If irritation occurs, seek medical attention.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of clean water. (If available, give several glasses of milk). If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: Under fire conditions, remove to fresh air. If breathing is difficult, have a trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Flash Point Cleveland Open Cup 67-73 Deg. C (min)

FLAMMABLE LIMITS: Upper Flammable Limit: Flammable
Lower Flammable Limit: Nonflammable
This material will burn but will not readily ignite.

FLAMMABLEILITY CLASSIFICATION: No data.

AUTOIGNITION TEMPERATURE: No data available.

HAZARDOUSCOMBUSTION PRODUCTS: Fumes, smoke, may form oxides of carbon and nitrogen.

EXTINGUISHING METHOD: Fires involving this product are unlikely, but should one occur, it could be controlled by carbon dioxide, dry chemical, foam or water fog. May form toxic material such as: carbon dioxide, carbon monoxide, hydrogen chloride, calcium oxide, and various hydrocarbons

ADDITIONAL CONSIDERATIONS: OIL FLOATS ON WATER. Do not use direct or heavy water stream to fight fire. Use organic vapor respirator or self-contained breathing apparatus to fight fire.

SENSITIVITY TO IMPACT: None.

SENSITIVITY TO STATIC DISCHARGE: None. As a precaution, always ground large metal containers and tank-cars etc., before discharging or filling.

NFPA 704 RATING: HEALTH: 1. FLAMMABILITY: 2. REACTIVITY: 1. SPECIAL:

6. ACCIDENTIAL RELEASE MEASURES

Wear protective equipment. Observe handling precautions. If material is spilled or released to the atmosphere, steps should be taken to contain liquids and prevent discharge to streams or sewer systems;

and control or stop loss of volatile materials to the atmosphere. Contained materials should be cleaned up using a vacuum truck or absorbent material and removed to approved waste disposal area. Spills or releases should be reported, if required to the appropriate local, state and federal regulatory agencies.

HANDLING AND STORAGE

HANDLING: Prevent possible static discharge when handling material. Do not wear contaminated clothing. Wash hands and face prior to eating, drinking, smoking, use of restrooms when leaving work. Do not dispose of material or empty container to the environment.

STORAGE: To prevent deterioration, with subsequent discoloration and possible decomposition with liberation oxides of carbon and nitrogen, storage temperatures should not exceed 60 Deg. C.

VENTILATION: No special ventilation required under normal use or blending procedures. Use local exhaust ventilation when the product is heated over 70 C: or mist, spray, dust or vapor may be generated.

SPECIAL PACKAGING MATERIAL: Not applicable.

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Washing or shower and eyewash facilities should be accessible.

EYE/FACE PROTECTION: Face shield and goggles should be worn where mist, spray, or dust may be generated when product is heated over 70 C.

SKIN PROTECTION: Impervious Viton gloves should be worn. Standard work clothing are acceptable. Standard work shoes are acceptable. Shoes that can't be decontaminated should be discarded. Wash contaminated clothing with soap and warm water and dry before reuse.

RESPIRATORY PROTECTION: Respiratory protection is not required under normal use. Use NIOSH/MSHA approved respiratory protection following manufacturer's recommendation where mist, spray, dust or vapor may be generated and where the product is heated substantially.

EXPOSURE GUIDELINES: (See Section 2.)

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear amber liquid.

ODOR: Slight odor. May contained fragrances.

PHYSICAL STATE: Liquid.

PH: Not Applicable

VAPOR PRESSURE FOR COMPONENT: 3.00MM Hg @ 20Deg. C.

VAPOR DENSITY: Air = 1. Heavier than Air.

BOILING POINT: Greater than 153 Deg. C. @ 760.00 mm Hg. Stable under normal conditions.

MELTING POINT: Not Applicable

SPECIFIC GRAVITY: .96 @ 25 Deg C.

SOLUBILITY IN WATER: Negligible.

EVAPORATION RATE: Negligible. Slower than ether.

FLASH POINT: Cleveland Open Cup 67-73 Deg C.

PERCENT VOLATILES: Greater than 25%

STABILITY AND REACTIVITY

CHEMICAL STABILITY: Elevated temperatures and strong alkalies will promote the decomposition of the product. The thermal decomposition is a time/temperature relationship. At room temperature, decomposition is virtually nil.

CONDITIONS TO AVOID: Elevated temperatures for extended periods of time.

INCOMPATIBILITY: N/A

HAZARDOUS POLYMERIZATION: Not know to polymerize.

HAZARDOUS DECOMPOSITION: Incomplete combustion can produce carbon dioxide and or carbon monoxide.

TOXICOLOGICAL INFORMATION

EYES EFFECT: No Data

SKIN EFFECT: No Data

INGESTION EFFECT: No Data

INHALATION DATA: No Data

SUBCHRONIC EFFECT: No Data

CHRONIC EFFECTS/CARCINOGENICITY: Not listed as a carcinogen- IRAC, NTP, and OSHA.

EPIDEMIOLOGY: No Data

TERATOLOGY: No Data

REPRODUCTIVE EFFECTS: No Data

NEUROTOXICITY: No Data

MUTAGENICITY: No Data

SYNERGISTIC PRODUCTS: No Data

ECOLOGICAL INFORMATION

ECOTOXICITY: No Data

ENVIRONMENTAL FATE: No Data

PHYSICAL/CHEMICAL: Refer to section 9 and 10.

DISPOSAL CONSIDERATIONS

METHOD OF DISPOSAL: According to local, state, province and federal regulations.

Package, store, transport and dispose of all clean-up material and contaminated equipment in accordance with all applicable federal, state, province and local health authorities and environmental regulations. Shipments of waste material may be subject to manifesting requirements per applicable regulations. Appropriate disposal will depend on nature of the waste material and should be performed by competent and properly permitted contractors. Please Recycle. Waste oil products may be returned to any oil collection center for re-refining.

TRANSPORTATION

DOT SHIPPING NAME: N/A

DOT HAZARD CLASS/DESCRIPTION: N/A

DOT LABEL: N/A

DOT PLACARD: N/A

DOT UN/NA NUMBER: N/A

DOT PRODUCT RQ: N/A

IMO CLASSIFICATION: N/A

EEC CLASSIFICATION: N/A

EEC LABEL: N/A

EEC R: N/A

EEC S: N/A

TRANSPORT CANADA PIN: N/A

*N/A = Not Applicable

REGULATORY INFORMATION (Not meant to be all inclusive)

U.S FEDERAL REGULATIONS

TSCA: Not shown in inventory.

OSHA: None

CERCLA SARA HAZARD CATEGORY: SECTION 311 AND 312: This product has been reviewed according to the EPA "Hazard Category" promulgated under sections 311 and 312 of the Superfund Amendment and reauthorization Act of 1986 (SARA Title III) and is considered, under the application definitions, to meet the following categories: None

Section 313; This product contains the following substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372: None

INTERNATIONAL REGULATIONS

Canadian WHIMIS: None

Canadian Environmental Protection Act (CEPA): Appears in the Domestic Substances List
EINECS: No specific listing in inventory.
State Regulations: No specific listings in inventory.

OTHER INFORMATION

MSDS Issued May 10, 2008

The information herein is given in good faith, but no warranty, expressed or implied, is made. Consult BestLine International Research Inc. for further information.