

## Material safety Data Sheet

MSDS:BL 2904

1.

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: 29000 **SYNTHETIC DIESEL FUEL TREATMENT**

PRODUCT NAME: BestLine Synthetic Diesel Fuel Treatment, XLR-8 Diesel Fuel Treatment, Sea-Spray and Sea Spray-Titan Diesel Fuel Treatment

PRODUCT USE: Diesel Fuel Treatment and Injector/Valve Cleaner and Lubricator

BestLine International Research Inc. 2979 Barley Mill Road, Yorklyn, DE, 19736  
Phone 518-631-2177 Fax: 604 534-4944 E-mail: [ron@bestlineresearch.com](mailto:ron@bestlineresearch.com)  
Cell Phone: (301) 580 2507 Emergency Service Contact: CHEMTREC: 1-800-424-9300

2.

### COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY: Blend of Synthetic Petroleum Products and Oxidation Inhibitors

PRODUCT GRADES: ISO 15

CAS REGISTRY NO: No

BRAND NAMES: BestLine Synthetic Diesel Fuel Treatment

WHMIS CONTROLLED: No

PRODUCT USE: Trucking/Automotive/Marine/Farm/ /Small Engine and Industrial Diesel Fuel Treatment

Hydrosomerized (Isodewaxed Group II +) HT Base Oils

Aliphatic Mineral Spirits (low aromatic) CAS 64742-96-764, VOC Exemption criteria and definition of LVP-VOC as established by California Air Resource Board, CARB's Consumer Products Regulation and are fully exempt and non-reportable.

3.

### HAZARDOUS INGREDIENTS

Component Volume %: CAS Number (68527-02-06) LD 50 LC 50

None

Oxidation Inhibitors and detergents: PEL 4 MG/M3 TLV 4MG/M3

Aliphatic Mineral Spirits (low aromatics) CAS 64742-96-764, VOC Exemption criteria and definition of LVP-VOC as established by California Air Resource Board, CARB's Consumer Product Regulations and are fully exempt and non-reportable.

### EMERGENCY OVERVIEW

Clear to light green liquid. Avoid extreme temperatures.

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

### POTENTIAL HEALTH EFFECTS

EYE: Can produce a mild to severe transient irritation.

SKIN: May produce mild to moderate irritation, which is readily reversible. Not known to be a sensitizer. Extended emersions can cause defatting dermatitis.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of the material into the lungs can cause chemical pneumonitis, which can in certain conditions be fatal.

**INHILATION:** Under normal conditions, this product is nontoxic; however, excessive inhalation of vapors in a confined situation can cause nasal and respiratory irritation, central nervous system effects including dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness and even death.

**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 poisoning occur. Over exposure to the material or its components has apparently been found to cause the following effects in laboratory animals: Liver abnormalities.

**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, 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: PMCC (closed cup) 77Deg C or 190 Deg F

**FLAMMABLE LIMITS:** Upper Flammable Limit: Flammable  
Lower Flammable Limit: Flammable  
This material will readily burn.

**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 and various hydrocarbons

**ADDITIONAL CONSIDERATIONS:** DISTILLED SOLVENTS WILL BLEND WITH WATER WHILE THE OIL PORTION WILL FLOAT ON WATER. Do not use direct or heavy water stream to fight fire. Use a mist to dilute the cool and break down the solvents. 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 larger metal containers before filling or discharging.

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 remove to approved waste disposal area. Spills or releases should be reported, if required to the appropriate local, state and federal regulatory agencies.

7.

#### **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, store products in closed containers at temperatures not to exceed 66 Deg. C.

**VENTILATION:** No special ventilation required under normal use or blending procedures. Use local exhaust ventilation when the product is heated over 60 C: or mist, spray, dust or vapor may be generated.

**SPECIAL PACKAGING MATERIAL:** Not applicable.

8.

#### **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 80 C.

**SKIN PROTECTION:** Impervious Viton gloves should be worn. Standard work clothing. Standard work shoes. 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.)

9.

**PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear to light amber/orange liquid.

ODOR: Slight odor.

PHYSICAL STATE: Liquid.

PH: Not Applicable

VAPOR PRESSURE FOR COMPONENT: 33.00MM Hg @ 20Deg. C.

VAPOR DENSITY: Air = 1. Heavier than Air.

BOILING POINT: Greater than 82 Deg. C. @ 760.00 mm Hg. Stable under normal conditions without open flame.

MELTING POINT: Not Applicable

SPECIFIC GRAVITY: Less than 1.00 @ 25 Deg C.

SOLUBILITY IN WATER: Negligible.

EVAPORATION RATE: Negligible. Slower than ether.

FLASH POINT: PMCC ASTM D93 (closed cup) 77 Deg C or 190 Deg F.

PERCENT VOLATILES: Greater than 25%

10.

**STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Elevated temperatures and strong alkalis will promote the decomposition and evaporation of the product. The thermal decomposition is a time/temperature relationship. At room temperature, decomposition is extremely slow.

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.

11.

**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

12.

#### **ECOLOGICAL INFORMATION**

ECCOTOXICITY: No Data

ENVIRONMENTAL FATE: No Data

PHYSICAL/CHEMICAL: Refer to section 9 and 10.

13.

#### **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. Used oil may be returned to any oil collection center for re-refining.

14.

#### **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

15.

**REGULATORY INFORMATION (Not meant to be all inclusive)**

**U.S FEDERAL REGULATIONS**

TSCA: Not shown in inventory.

OSHA: Non

**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

NOS-UN-1993 (173.115)

**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.

16.

**OTHER INFORMATION**

MSDS Status Issued: July 19, 2010

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