

Product Trade Name: SMART BLEND MULTI-VEHICLE ATF
PROTECTANT #6900 (TITANIUM)

Spectrum
CORPORATION



Material Safety Data Sheet

Section 1 PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: SMART BLEND MULTI-VEHICLE ATF
PROTECTANT #6900 (TITANIUM)

Company Identification

Life Automotive Products, Inc.
500 Industrial Park Drive
Selmer, TN 38375-3276
United States of America

Emergency Response

North America: CHEMTREC (800) 424-9300 after 5:00pm CST
Or (703) 527-3887

Health Emergency

USA: (800) 264-6457 or (731) 645-4972

Product Information

MSDS Requests: (800) 264-6457 or (731) 645-4972
Technical Information: (800) 264-6457 or (731)645-4972
General Information: vswedley@spectrumcorporation.com

Product Family

Petroleum Lubricating Oil

CAS Number

Mixture

Note: Petroleum lubricating oils with a flashpoint above 200°F, are not regulated by D.O.T standards.

Section 2 HAZARDS IDENTIFICATION

IMMEDIATE HEALTH EFFECTS :

WHMIS Classification (D2B Chemical)

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Hazard Rankings		
	HMIS	NFPA
Health Hazard	1	1
Fire Hazard	1	1
Reactivity	0	0



- Inhalation:** Breathing mists and vapors may cause slight respiratory tract irritation. Breathing vapors from product when heated to temperatures above 150°F which then may contain Hydrogen Sulfide, can also cause headaches, dizziness, nausea, coughing, bronchial irritation and dryness, and in sufficient quantities, unconsciousness.
- Eye Contact:** Components of this product have been determined to be irritating and corrosive to eyes
- Skin Contact:** Components of this product have been determined to be irritating and corrosive to skin.
- Ingestion:** Minor components (<5%) of this product have been determined to be mildly to moderately toxic (LD50: <1/5g/kg).
- TLV:** This product does not contain any components which have recognized exposure limits. However a TLV of 5.0 mg/cubic meter for oil mist.
- Chronic Effects:** This product may contain ingredients that are listed as potential carcinogens in N.T.P. Annual Report on Carcinogens, I.A.R.C. Monographs, or by O.S.H.A. HCS (g) (2) (vii).

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS Number	Concentration (%)
Antiwear Additive	Confidential	<2
Alkyl acid phosphate	68307-94-8	<2
Zinc dialkyl dithiophosphate	68649-42-3	<0.6
Amines, Soya alkyl, ethoxylated	61791-240	10-15
Branched Alkanes	68649-11-6	10-15
Nonylated diphenylamine derivatives	Confidential	20-30
Benzotriazole derivative	Confidential	<0.5
Polyalphaolefins	Mixture	40-50

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Petroleum distillates	64742-54-7	30-40
Viscosity Modifier (PPD)	Mixture	3-5
C.I. Slvent Red 164 Red Dye*	See Below	<0.05

*2-Naphthalenol (Phenylazo) Phenyl Azo Alkyl Derivatives. TSCA Accession #35371

Note that the chemical identity of some or all of the above components is considered confidential business information and is being withheld as permitted by 29CFR 1910.1200 and various State Right-To-Know Laws.

Section 4 FIRST AID MEASURES

- Skin:** Remove material from skin by patting or blotting with a clean cloth. Wash exposed areas with soap and water for at least 15 minutes. Seek medical attention immediately. Do not reuse contaminated clothing until laundered. Discard all contaminated leather goods.
- Eye:** DO NOT RUB EYES. Immediately wash eyes with large amounts of water for at least 15 minutes. Remove contact lenses before washing. Seek medical attention immediately.
- Inhalation:** If symptoms of Hydrogen Sulfide exposure are indicated, remove individual(s) to fresh air and administer oxygen. Seek medical attention immediately.
- Ingestion:** DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, watch for signs of aspiration. Seek medical attention immediately.

Section 5 FIRE FIGHTING MEASURES

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self contained breathing apparatus.

Extinguishing Media:

Use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Water spray may be used to flush spills away from exposures. Use supplied-air breathing equipment for enclosed or confined spaces, or as otherwise needed.

Special Firefighting Procedures:

Cool exposed containers with water spray. Avoid breathing gasses, vapor, fumes, or decomposition of products. Self-contained breathing equipment chemical resistant clothing recommended.

Unusual Fire and Explosion Hazards:

Pressure increase in over heated closed containers. Cool containers with water spray. product of combustion

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includes fumes & CO2

Section 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove ignition sources. Recover Liquid. Add absorbent to spill area. Ventilate confined spaces. Advise authorities if product enters sewers, etc.

Waste Disposal: Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site.

Precautionary Measures:

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling.

General Handling Information:

Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Section 7 HANDLING AND STORAGE

General Storage Information:

Keep container closed when not in use. Do not store with strong oxidizing agents. Do not store at elevated temperatures.

Container Warnings:

Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

Section 8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

COMPONENTS	Regulatory Agency	Exposure Limit
Antiwear Additive	OSHA	5mg/m ³
Alkyl acid phosphate	OSHA	5mg/m ³
Zinc dialkyl dithiophosphate	OSHA	5mg/m ³
Amines, Soya alkyl, ethoxylated	OSHA	5mg/m ³
Branched Alkanes	OSHA	5mg/m ³
Nonylated diphenylamine derivatives	OSHA	5mg/m ³

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Benzotriazole derivative	OSHA	5mg/m³
Polyalphaolefins	OSHA	5mg/m³
Petroleum distillates	OSHA	5mg/m³
Viscosity Modifier (PPD)	OSHA	5mg/m³
C.I. Slvent Red 164 Red Dye*	OSHA	5mg/m³

Ventilation Procedure: Ventilate as needed to comply with exposure limit.
Gloves Protection: Use impervious gloves to avoid repeated/prolonged skin contact.
Eye Protection: Use goggles/face shield to avoid eye contact.
Work/Hygienic Practices: If clothing becomes contaminated, change to fresh clean clothing. Do not wear until thoroughly laundered.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	Not Determined
Vapor Pressure (mm Hg)	Less than 0.01 mm Hg @ 20°C
Vapor Density (air=1)	Greater than 5
Solubility in Water	Negligible; less than 0.1%
Appearance and Odor	Red /Mild, bland petroleum odor
Specific Gravity (H ₂ O=1)	0.8783 @ 60°F
Evaporation Rate	Not Determined
Viscosity @ 100C	8.70 cSt
Flash Point	280°F COC

Section 10 STABILITY AND REACTIVITY

Stability: Stable
Incompatibility: Avoid strong oxidants
Polymerization: Will not occur
Thermal Decomposition: Oxides of Carbon, Nitrogen & Sulfur, & Phosphorus, Methacrylate Monomers. Under certain conditions, Ammonia & Hydrogen Sulfide.

Section 11 TOXICOLOGY INFORMATION

Distillates (petroleum), hydrotreated light
ORAL (LD50): Acute: >5000 mg/kg [Rat].

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DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].

Studies on laboratory animals have associated similar materials with eye and respiratory tract irritation. Repeated exposure to elevated concentrations of hydrocarbon solvents can produce a variety of transient CNS effects (e.g., dizziness, headache, narcosis, etc). Studies on laboratory animals have shown similar materials to cause skin irritation after repeated or prolonged contact. Repeated direct application of similar materials to the skin can produce defatting dermatitis and kidney damage in laboratory animals. The most common effects observed in repeated dose animal studies with mineral spirits are kidney changes that are consistent with an alpha 2u-globulin- mediated process that is not regarded as relevant to humans. Certain studies have reported effects in the liver as well as hematological or urine chemistry changes. In general, these effects have not to been shown to be dose-related.

Highly-refined petroleum lubricant oils:

ORAL (LD50): Acute: >5000 mg/kg [Rat].

DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Section 12 ECOLOGICAL INFORMATION

Ecotoxicity

An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

Environmental Fate

Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.

Section 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Assure conformity with applicable disposal regulations.
Dispose of absorbed material at approved waste site.

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Section 14 TRANSPORTATION INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status Not Regulated

Section 15 REGULATORY INFORMATION

TSCA Inventory

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

**DSL Inventory
SARA 313 Toxic**

All components are listed or exempted.

**Chemical Notification
and Release
Reporting**

CAS Number	Wt %	Component Name
68649-42-3	1.0	Zinc dialkyldithiophosphate

**Clean Water Act
(CWA)**

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

**California
Proposition 65**

This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: 0.00006% Toluene
CAS no 108-88-3

**New Jersey
Right-to-Know Label**

Petroleum Oil

Section 16 OTHER INFORMATION

The data presented herein is based upon tests and information, which we believe to be reliable. However, users should make their own investigations to determine the suitability of the information for their particular purpose.