

# MATERIAL SAFETY DATA SHEET

PENNZOIL MARINE® 100% SYNTHETIC WHITE MARINE GREASE

## 1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number: 23007

Version Date: 09/11/02

**Product Name:** PENNZOIL MARINE® 100% SYNTHETIC WHITE MARINE GREASE

**Product Use:** Grease

**Synonyms:** 56574

### Company Information

SOPUS Products  
Pennzoil Marine Products  
P.O. Box 4427  
Houston, TX 77210-4427  
USA

### Phone Numbers

**Medical Emergency:** 1-800-546-6040  
**Transportation Emergency (USA):** 1-800-424-9300  
**Transportation Emergency (International):**  
1-703-527-3887 (Call Collect)  
**MSDS Assistance:** 1-800-546-6227  
**Fax On Demand:** 1-800-546-6227  
**Technical Assistance:** 1-800-458-4998  
**Customer Service:** 1-800-468-8397  
**Fax Number:** 713-217-3181  
**Internet Address:** www.MSDS.PZLQS.com

## 2. COMPONENT INFORMATION

| Component                                | CAS No.     | Weight Percent Range | Hazardous in Blend |
|--|-------------|----------------------|--------------------|
| 1-DECENE, HOMOPOLYMER, HYDROGENATED      | 68037-01-4  | 60 - 80              | No                 |
| LITHIUM SOAP                             | MIXTURE     | 10 - 30              | No                 |
| ORGANIC ZINC COMPOUND                    | PROPRIETARY | 1 - 10               | No                 |
| PROPRIETARY ADDITIVES                    | MIXTURE     | < 5                  | No                 |
| HEAVY NAPHTHENIC HYDROTREATED DISTILLATE | 64742-52-5  | < 1                  | No                 |

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Other:** No information available

## 3. HAZARDS IDENTIFICATION

### Emergency and Hazards Overview

CAUTION: Contains synthetic lubricant. Spills may create a slipping hazard.

NFPA Ratings: Health 0 Flammability 1 Reactivity 0

Primary Route of Exposure: Skin X Inhalation -- Eye --

### Health Effect Information

**Eye Contact:** This product is expected to be practically non-irritating upon direct contact.

**Skin Contact:** This product is minimally irritating to the skin upon direct contact. Prolonged or repeated contact may result in slight skin irritation.

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**Inhalation:** This product is not expected to pose an inhalation hazard under conditions of normal use or foreseeable misuse. This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. Acute and chronic overexposures generated under unusual conditions may be irritating to the respiratory tract.

**Ingestion:** This product is regarded as having a low order of toxicity. There are no known adverse effects based on current references.

**Medical Conditions Aggravated by Exposure:** Drying and chapping may make the skin more susceptible to other irritants, sensitizers and disease.

**Other:** No information available

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## 4. FIRST AID INFORMATION

**Eye Contact:** Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and seek immediate medical attention.

**Skin Contact:** No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.

**Inhalation:** This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If vapor or mist is generated when the material is heated, and the victim experiences signs of respiratory tract irritation, remove to fresh air.

**Ingestion:** No treatment is necessary under ordinary circumstances. Do not induce vomiting. This material does not present any known ingestion hazard.

**Notes to Physician:** No information available

**Other:** No information available

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## 5. FIRE AND EXPLOSION INFORMATION

### Flammable Properties

**Flash Point:** 392 F, 200 C

**Test Method:** ASTM 3278 - Closed Cup

**Flash Point:** >302 F, >150 C

**Test Method:** ASTM D-92 (C.O.C.)

### Flammable Limits in Air

**Upper Percent:** No data available

**Lower Percent:** No data available

**Autoignition Temperature:** No data available

**Test Method:** No information available

**NFPA Classification:** Class III-B combustible liquid

**Extinguishing Media:** Use dry chemical, foam, or carbon dioxide.

### Fire Fighting Measures

**Special Fire Fighting Procedures and Equipment:** Water may be ineffective but can be used to cool containers exposed to heat or flame to prevent vapor pressure buildup and possible container rupture. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

**Unusual Fire and Explosion Conditions:** Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

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**Hazardous Combustion By-Products:** None

**Other:** No information available

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## 6. ACCIDENTAL RELEASE MEASURES

**Personnel Safeguards:** Consult Health Effect Information in Section 3, Personal Protection Information in Section 8, Fire and Explosion Information in Section 5, and Stability and Reactivity Information in Section 10.

**Regulatory Notifications:** Notify appropriate authorities of spill.

**Containment and Clean up:** Contain spill immediately. Do not allow spill to enter sewers or watercourses. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

**Other:** No information available

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## 7. HANDLING AND STORAGE INFORMATION

**Handling:** Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106-- Flammable and Combustible Liquids.

**Storage:** Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame, or oxidizing materials. See also additional information section below.

### Empty Container Warnings

**Drums:** Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed. Empty containers retain product residue and can be dangerous.

**Plastic:** Do not reuse this container. Empty container may retain product residues.

**Other:** No information available

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

### Exposure Limits and Guidelines

This product does not contain any components with OSHA or ACGIH exposure limits.

### Personal Protective Equipment

**Eye/Face Protection:** Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

**Skin Protection:** No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.

**Respiratory Protection:** Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

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**Personal Hygiene:** Always wash hands and face with soap and water before eating, drinking, or smoking. Consumption of food and beverage should be avoided in work areas where this product is present.

## Engineering Controls / Work Practices

**Ventilation:** General room ventilation is normally sufficient. If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.

**Other:** No information available

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|--|--|
| <b>Appearance:</b> Off - white   |  |
| <b>Odor:</b> Petroleum - mild  | <b>Vapor Pressure:</b> < 0.01 mm Hg @ 68 F           |
| <b>Physical state:</b> Semi-solid  | <b>Vapor Density (air=1):</b> > 1                    |
| <b>pH:</b> No data available   | <b>Percent Volatile by Volume:</b> No data available |
| <b>Boiling Point:</b> No data available                                    | <b>Volatile Organic Content:</b> No data available   |
| <b>Melting Point:</b> No data available                                    | <b>Molecular Weight:</b> No data available           |
| <b>Specific Gravity:</b> < 1   | <b>Average Carbon Number:</b> No data available      |
| <b>Pour Point:</b> No data available                                       | <b>Viscosity @ 100 F:</b> No data available          |
|  | <b>Viscosity @ 40 C:</b> No data available           |
| <b>Solubility in Water:</b> Insoluble in water                             |  |
| <b>Octanol / Water Coefficient: Log K<sub>ow</sub> =</b> No data available |  |

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## 10. STABILITY AND REACTIVITY INFORMATION

**Chemical Stability:** Stable

**Conditions to Avoid:** None

**Incompatible Materials to Avoid:** May react with strong oxidizing agents.

**Other:** No information available

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## 11. TOXICOLOGICAL INFORMATION

**Primary Eye Irritation:** No information available

**Primary Skin Irritation:** No information available

**Acute Dermal Toxicity:** No information available

**Subacute Dermal Toxicity:** No information available

**Dermal Sensitization:** No information available

**Inhalation Toxicity:** No information available

**Inhalation Sensitization:** No information available

**Oral Toxicity:** The Oral LD50 for similar product is 20g/kg.

**Mutagenicity:** No information available

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**Carcinogenicity:** The International Agency for Research on Cancer (IARC) has concluded that there is inadequate data to evaluate the carcinogenicity to experimental animals of this class of product. Also, IARC has determined this class of products belongs to Group 3 substance, "not classifiable as to its carcinogenicity to humans", based on inadequate human and inadequate animal data.

**Reproductive and Developmental Toxicity:** No information available

**Teratogenicity:** No information available

**Immunotoxicity:** No information available

**Neurotoxicity:** No information available

**Other:** No information available

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## 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No information available

**Terrestrial Toxicity:** No information available

**Chemical Fate and Transport:** No information available

**Other:** No information available

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## 13. DISPOSAL INFORMATION

**Regulatory Information:** All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.

**Waste Disposal Methods:** Waste material may be landfilled or incinerated at an approved facility. Materials should be recycled if possible.

**Other:** No information available

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## 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation (DOT)**

**Highway / Rail (Bulk):** Not Regulated

**Highway / Rail (Non-Bulk):** Not Regulated

**For US shipments, US DOT law requires the shipper to determine the proper shipping description of the material that is being shipped. The shipping information and description contained in this section may not be suitable for all shipments of this material, but may help the shipper determine the proper shipping description for a particular shipment.**

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## International Information

Vessel: IMDG Regulated: -- IMDG Not Regulated: X  
Air: ICAO Regulated: -- ICAO Not Regulated: X

Other: No information available

## 15. Regulatory Information

**Regulatory Lists Searched:** The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

**Health & Safety:** 10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 22 - FDA 21 CFR Total food additives, 23 - NFPA 49 or 325

**Environmental:** 30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depletors, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds (VOC's) in SOCOMI, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA / SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45 - CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S)MCLs

**International:** 50 - Canada - WHMIS Classification of substance, 54 - Mexico - Drinking water - ecological criteria, 55 - Mexico - Wastewater discharges, 56 - US -TSCA Section (12)(b) - export notification

**State Lists:** 60 - CA - Proposition 65, 61 - FL - Substances, 62 - MI - Critical materials, 63 - MA - RTK, 64 - MA - Extraordinarily hazardous substances, 65 - MN - Hazardous substances, 66 - PA - RTK, 67 - NJ - RTK, 68 - NJ - Environmental hazardous substances, 69 - NJ - Special hazardous substances

**Inventories:** 80 - Canada - Domestic substances, 81 - European - EINECS, 82 - Japan - ENCS, 83 - Korea - Existing and evaluated chemical substances, 84 - US - TSCA, 85 - China Inventory

### Regulatory Search Results:

1-DECENE, HOMOPOLYMER, HYDROGENATED: 80, 83, 84, 85  
HEAVY NAPHTHENIC HYDROTREATED DISTILLATE: 80, 81, 83, 84, 85

**U.S. TSCA Inventory:** All components of this material are on the US TSCA Inventory.

### SARA Section 313:

| <u>Chemical</u> | <u>CAS Number</u> | <u>Percent in Product</u> |
|-----------------|-------------------|---------------------------|
| ZINC COMPOUNDS  | MIXTURE           | 1 - 10                    |

IARC: No information available

### SARA 311 / 312 Categories

Acute: -- Chronic: -- Fire: -- Pressure: -- Reactive: --  
Not Regulated: X

### Canadian WHMIS Classification

Not a controlled substance under WHMIS

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## European Union Classification

### Hazard Symbols:

No classification recommended

### Risk Phrases:

No classification recommended

### Safety Phrases:

No classification recommended

**Other:** No information available

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## 16. OTHER INFORMATION

### Health and Environmental Label Language

Back Label:

CAUTION: Contains Synthetic Lubricant.

PRECAUTIONARY MEASURES: Avoid excessive & prolonged skin contact. Wash thoroughly after handling. Avoid generation and inhalation of oil mists.

### MSDS Revisions

**Previous Version Date:** 06/05/01

### Previous Version Information

Revised sections -

- 1 - Product and Company Identification
- 2 - Component Information
- 5 - Fire and Explosion Information
- 9 - Physical and Chemical Properties

### Other

No information available

### Prepared By:

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