

Signature® Formula4 Motor Oil

Safety Data Sheet



SECTION 1 IDENTIFICATION

Product Name: Signature® Formula4 Motor Oil 5w20, 5w30, 10w30

Distributor Information:

Parman Energy Corporation
7101 Cockrill Bend Blvd
Nashville, TN 37209
(800) 727-7920

Product Use: Engine Oil, Lubricant

Emergency Phone Number:

PERS (800) 633-8253

SECTION 2 HAZARD(S) IDENTIFICATION

Classification:

OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements:

Appearance: Amber Liquid

Physical State: Viscous Liquid

Odor: Mild Petroleum Odor

Hazards Not Otherwise Classified (HNOC)

Other Information

May be harmful in contact with skin

Unknown Aquatic Toxicity 0% of the mixture consists of ingredients of unknown toxicity.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: Hydrocarbon Lubricating Fluid

Chemical Family: Petroleum Hydrocarbon Mixture

| Components | CAS Number | Amount | Trade Secret |
|--|------------|-----------|--------------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | 0-25 | * |
| Lubricating oils, petroleum, hydrotreated spent | 64742-58-1 | 55-85 | * |
| Zinc dialkyl dithiophosphate | 68649-42-3 | 0.50-0.91 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

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SECTION 4 FIRST-AID MEASURES

First-aid measures general: No hazards which require special first aid measures

Inhalation: Move exposed persons to fresh air. Consult medical personnel if breathing issues occur.

Skin: Wash off immediately with soap and plenty of water

Eye Contact: Flush eyes for 30 minutes with water. Get medical attention if irritation persists.

Ingestion: Do NOT induce vomiting. Consult a physician.

Immediate Symptoms and Effects:

Symptoms: No Information Available

Delayed or other Health Effects: No Information Available

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Carbon dioxide (CO₂). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

Small Fires: Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.

Large Fires: Contact emergency personnel.

Unsuitable extinguishing media: Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical: Combustible material.

Hazardous Combustion Products: Carbon monoxide. Carbon dioxide (CO₂)

Explosion data:

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Protection for Fire Fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency Procedures:

Personal Protection: Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become slippery

Other Information: Small spill: Remove sources of heat or ignition, provide adequate ventilation, contain spill, transfer to secure containers. In the event of an uncontrolled material release, the user should determine if release is reportable under applicable laws and regulations.

For emergency responders: Clean up area with absorbent material and place in closed containers for disposal.

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Environmental Precautions: See section 12 for additional Ecological Information

Methods for Containment: Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain.

Methods for Cleaning Up: Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required

SECTION 7 HANDLING AND STORAGE

Precautionary Measures:

Advice on Safe Handling: Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70°C (158°F). It is recommended to pump or transfer material at ambient temperature.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep away from heat and sources of ignition. Keep containers closed when not in use. Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: Store in cool dry area. Always follow local, state, and federal guidelines for storage of material for amount stored.

Incompatible Products: Strong oxidizing agents.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate Engineering Controls:

Engineering Controls: Showers, eyewash stations, ventilation systems

Personal Protective Equipment:

Eye/Face Protection: If splashes are likely to occur, wear: Goggles. Eye/Face Protection.

Skin and Body Protection: Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: Remove & wash contaminated clothing before re-use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Amber

Physical State: Viscous Liquid

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Odor: Mild Petroleum Odor
Odor Threshold: No data available
pH: Not available
Vapor Pressure: Not available
Vapor Density (Air = 1): Not available
Initial Boiling Point: Not available
Solubility: Not available
Melting/Freezing Point: Not available
Flash Point: > 200°C / > 392°F Cleveland Open Cup (COC)
Specific Gravity: 0.86-0.87
Kinematic Viscosity: 50-145 @40°C mm²/s
Dynamic Viscosity: Not available
Evaporation Rate: Not available
Decomposition temperature: Not available
Octanol/Water Partition Coefficient: Not available
Flammable Properties:
Flammability (solid, gas): Not available
Auto-ignition temperature: No data available
Explosive Properties: Not available
Oxidizing Properties: Not available
Flammability (Explosive) Limits (% by volume in air): Lower: Not available Upper: Not available

Other Information:

Softening Point: Not available
VOC Content: Not available
Density: Not available
Bulk Density: Not available

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Not available
Chemical Stability: Stable under normal conditions
Possibility of Hazardous Reactions: None under normal processing.
Conditions to Avoid: Excessive heat. High energy sources of ignition.
Incompatibility With Other Materials: Strong oxidizing agents
Hazardous Decomposition Products: None known based on information supplied.
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Product Information: No data available

Eye Contact: Avoid contact with eyes. May cause irritation.

Skin Contact: May cause eye/skin irritation. Prolonged skin contact may defat the skin and produce dermatitis

Inhalation: Inhalation of vapors in high concentration may cause irritation of respiratory system.

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Ingestion: Do NOT taste or swallow

| Chemical Name | Oral LD50 | Dermal LD 50 | Inhalation LC50 |
|--|-------------------|----------------------|-----------------|
| Lubricating oils, petroleum, hydrotreated spent 64742-58-1 | >2000 mg/kg (Rat) | >4480 mg/kg (Rabbit) | -- |

Information on toxicological effects:

Symptoms: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: Irritating to eyes

Sensitization: No information available

Germ Cell Mutagenicity: No information available

Carcinogenicity: Mineral oils are known to cause cancer because of carcinogenic components (e.g. benene). The mineral oil in this product is highly refined and should not be considered a carcinogen. Used lubricating oil may contain hazardous components which have the potential to cause skin cancer. Continuous long-term contact with used lubricating oils has caused skin cancer in animal tests

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|-------|---------|-----|------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | - | Group 1 | - | X |

Reproductive toxicity: No information available

STOT – Single exposure: No information available

STOT – Repeated exposure: No information available

Aspiration Hazard: No information available

Numerical measures of toxicity – Product Information:

Unknown Aquatic Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 5051 mg/kg

ATEmix (dermal) 5051 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

17.48% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

| Chemical Name | Algae/Aquatic Plants | Fish | Crustacea |
|--|----------------------|---|------------------------------------|
| Petroleum distillates, hydrotreated sheavy paraffinic 64742-54-7 | - | 5000: 96 h Oncorhynchus mykiss mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50 |
| Lubricating oils, petroleum, hydrotreated spent 64742-58-1 | - | 79.6: 96 h Brachydanio rerio mg/L LC50 semi-static 3.2: 96 h Pimephales promelas mg/L LC50 semi-static | - |

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| | | | |
|--|---|--|--|
| Zinc dialkyl dithiophosphate 68649-42-3 | - | 1.0 – 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 – 35.0: 96 h Pimephales promelas mg/L LC50 semi- static | 1 – 1.5: 48 h Daphnia magna mg/L EC50 |
|--|---|--|--|

Persistence and Degradability: No data available.

Bioaccumulation: No data available.

Other adverse effects: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal should be in accordance with applicable regional, national, and local laws and regulations

Contaminated Packaging: Do not reuse container

SECTION 14 TRANSPORT INFORMATION

DOT: Not regulated

IATA: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO TI OR IATA DGR

SECTION 15 REGULATORY INFORMATION

International Inventories:

TSCA: Does not comply

DSL/NDSL: Does not comply

EINECS/ELINCS: Does not comply

ENCS: Does not comply

IECSC: Does not comply

KECL: Does not comply

PICCS: Does not comply

AICS: Does not comply

Legend:

TSCA – United States Toxic Substances Control Act Section 8 (b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

AICS – Australian Inventory of Chemical Substances

U.S. Federal Regulations:

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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SARA 311/312 CATEGORIES

1. Acute Health Hazard: No
2. Chronic Health Hazard: No
3. Fire Hazard: No
4. Sudden Release of Pressure Hazard: No
5. Reactivity Hazard: No

Clean Water Act: This product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations:

California Proposition 65: This product does not contain any proposition 65 chemicals

U.S. State Right-to-Know Regulations:

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Zinc dialkyl dithiophosphate 68649-42-3 | X | - | X |

U.S. EPA Label Information:

EPA Pesticide Registration Number: Not Applicable

SECTION 16 OTHER INFORMATION

NFPA Ratings

NFPA Health Hazard 1
NFPA Fire Hazard 1
NFPA Reactivity 0
Physical & Chemical Hazards -

HMIS Rating

HMIS Health Hazard 1
HMIS Fire Hazard 1
HMIS Reactivity 0
Personal Protection X

Issuing Date: 16 Feb 2011

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SDS sections updated 2, 3, 5, 6, 7, 9, 10, 11, 14, 16

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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Parman Energy makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity, and suitability of his own use, handling, and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Parman Energy as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Parman Energy assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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