# Safety Data Sheet

Product identifier used on the label: **STARFIRE Premium Plus Synthetic Blend Heavy Duty Engine Oils**
Revision Date: 10-19-2021
Replaces: 09-24-2021

## 1. Identification

Product identifier used on the label: **STARFIRE Premium Plus Synthetic Blend Heavy Duty Engine Oils (15W-40, 10W-30)**

Other means of identification:
Synonyms: No data available

Recommended use of the chemical and restrictions on use:
Recommended use: Motor Oil

Restrictions on use: Uses other than those described above

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:
Coolants Plus Inc.
2570 Van Hook Ave
Hamilton, OH 45015

Phone number: +01 (888) 258-8723

E-mail address: andrewz@coolantsplus.com

Emergency phone number: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

## 2. Hazard(s) identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200**:

GHS Classification: Not classified as hazardous under OSHA

Hazards not otherwise classified: No data available

## 3. Composition/information on ingredients

| Chemical Name | Common name and synonyms | CAS # | % |
|---|---|---|---|
| Petroleum distillates, hydrotreated heavy paraffinic | No data available | 64742-54-7 | 60 - 80 |
| Highly refined synthetic base stocks | No data available | 64742-54-7 | 7 - 13 |
| Alkyl phenol | No data available | 125643-61-0 | 1 - 5 |
| Distillates, petroleum, solvent-dewaxed light paraffinic | No data available | 64742-56-9 | 0.5 - 1.5 |
| Paraffin oils, petroleum, catalytic dewaxed heavy | No data available | 64742-70-7 | 0.5 - 1.5 |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | No data available | 64742-65-0 | 0.5 - 1.5 |

| | | | |
|---|---|---|---|
| Petroleum distillates, solvent-refined heavy paraffinic | No data available | 64741-88-4 | 0.1 - 1 |

One or more hazardous ingredient(s) is claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

## 4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

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|---|---|
| Inhalation: | Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. |
| Eye Contact: | Use eye wash to remove a chemical from the eye. Flush the affected eye for at least fifteen minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical attention if irritation persists. |
| Skin Contact: | Wash with soap and water. Get medical attention if irritation develops or persists. |
| Ingestion: | Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS. |
| Most important symptoms/ effects, acute and delayed: | No data available |
| Indication of immediate medical attention and special treatment needed, if necessary: | No additional first aid information available. |

## 5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

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|---|---|
| Suitable extinguishing media: | Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid. |
| Unsuitable extinguishing media: | No data available |
| Specific hazards arising from the chemical: | Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. |

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| Hazardous combustion products: | Carbon monoxide, Sulfur containing gases, Nitrogen containing gases, oxides of phosphorus, Hydrogen sulfide |
| Special protective equipment and precautions for fire-fighters: | Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the surrounding fire. |

## 6. Accidental release measures

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|---|---|
| Personal precautions, protective equipment and emergency procedures: | No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS. |
| Methods and materials for containment and cleaning up: | Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. |

## 7. Handling and storage

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|---|---|
| Precautions for safe handling: | Mildly irritating material. Avoid unnecessary exposure. Follow all protective equipment recommendations provided in Section 8. |
| Conditions for safe storage, including any incompatibilities: | |
| Safe storage conditions: | Store in a cool dry place. Isolate from incompatible materials. |
| Materials to Avoid/ Chemical Incompatibility: | Strong oxidizing agents |

## 8. Exposure controls/ personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

| Chemical component | OSHA PEL | ACGIH TLV | ACGIH STEL | IDLH | US WEEL |
|---|---|---|---|---|---|
| Petroleum distillates, hydrotreated heavy paraffinic | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data available | No data available |
| Highly refined synthetic | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data | No data |

| | | | | | |
|---|---|---|---|---|---|
| base stocks | | | | available | available |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data available | No data available |

Appropriate engineering controls: Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Individual protection measures, such as personal protective equipment:

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye protection: Wear safety glasses when handling this product if there is a likelihood of contact with eyes.

Skin protection: Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Neoprene, Nitrile

General hygiene conditions: Follow all protective equipment recommendations provided in Section 8.

## 9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical state: Liquid

Color: Brown

Odor: Mild

Odor Threshold: Not determined

pH: No data available

Melting point/freezing point:

Melting Point: No data available

Freezing point: No data available

Initial boiling point and boiling range **(°C)**: No data available

| | |
|---|---|
| **Flash Point (°C)**: | 224 |
| Evaporation Rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper/lower flammability or explosive limits: | |
| Upper flammability or explosive limits: | Not established |
| Lower flammability or explosive limits: | Not established |
| Vapor pressure: | No data available |
| Vapor density: | No data available |
| Relative density: | 0.88 |
| Solubility(ies): | Negligible; 0-1% |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition Temperature: | Not determined |
| Viscosity: | 116.1 |

## 10. Stability and reactivity

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|---|---|
| Reactivity: | There are no known reactivity hazards associated with this product. |
| Chemical stability: | Stable under normal conditions. |
| Possibility of hazardous reactions: | None expected under standard conditions of storage. |
| Conditions to avoid (e.g., static discharge, shock, or vibration): | Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation). |
| Incompatible materials: | Strong oxidizing agents |
| Hazardous decomposition products: | Carbon monoxide, Sulfur containing gases, Nitrogen containing gases, oxides of phosphorus, Hydrogen sulfide |

## 11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

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|---|---|
| Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): | Skin contact, Inhalation, Ingestion, Eye contact |

| | |
|---|---|
| Symptoms related to the physical, chemical and toxicological characteristics: | No data available |

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

| | |
|---|---|
| Ingestion: | No hazard in normal industrial use. Estimated to be > 5.0 g/kg. |
| Skin Contact: | This material is likely to be slightly irritating to skin based on animal data.Can cause minor skin irritation, defatting, and dermatitis. |
| Absorption: | Estimated to be > 5.0 g/kg; practically non-toxic |
| Inhalation: | No hazard in normal industrial use. Likely to be practically non-toxic based on animal data. |
| Eye Contact: | This material is likely to be non-irritating to eyes based on animal data. |
| Sensitization: | Non-hazardous under Respiratory Sensitization category.No data available to indicate product or components may be a skin sensitizer. |
| Mutagenicity: | No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic. |
| Carcinogenicity: | Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer. |
| Reproductive toxicity | Not known or reported to cause reproductive or developmental toxicity. |
| STOT-single exposure: | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure: | Based on available data, the classification criteria are not met. |
| Aspiration hazard: | Based on available data, the classification criteria are not met. |
| Other information: | None known. |

Numerical measures of toxicity (such as acute toxicity estimates):

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Petroleum distillates, solvent-refined heavy paraffinic | Oral LD50 Rat > 5000 mg/kg | Dermal LD50 Rabbit > 2000 mg/kg | Inhalation LC50 (4h) Rat > 5530 MG/M3 |
| Distillates, petroleum, solvent-dewaxed light paraffinic | Oral LD50 Rat > 5000 mg/kg | Dermal LD50 Rabbit > 5000 mg/kg | Inhalation LC50 (4h) Rat > 5399 MG/M3 |
| Paraffin oils, petroleum, catalytic dewaxed heavy | Oral LD50 Rat > 15000 mg/kg | Dermal LD50 Rabbit > 5000 mg/kg | |

| | | | |
|---|---|---|---|
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | Oral LD50 Rat > 15000 mg/kg | Dermal LD50 Rabbit > 5000 mg/kg | Inhalation LC50 (4h) Rat > 2400 MG/M3 |
| Highly refined synthetic base stocks | Oral LD50 Rat > 15000 mg/kg | Dermal LD50 Rabbit > 5000 mg/kg | |
| Petroleum distillates, hydrotreated heavy paraffinic | Oral LD50 Rat > 15000 mg/kg | Dermal LD50 Rabbit > 5000 mg/kg | |

Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

| Chemical Name | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen |
|---|---|---|---|
| There are no components that are known or reported to cause cancer. | | | |

## 12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available): Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.

Ecological Toxicity Data:

| Chemical Name | CAS # | Aquatic EC50 Crustacea | Aquatic ERC50 Algae | Aquatic LC50 Fish |
|---|---|---|---|---|
| Petroleum distillates, solvent-refined heavy paraffinic | 64741-88-4 | EC50 (48h) Daphnia magna > 1000 mg/L | No data available | LC50 (96h) Rainbow Trout > 5000 mg/L |
| Distillates, petroleum, solvent-dewaxed light paraffinic | 64742-56-9 | LC50 (48h) > 1000 mg/L | No data available | LC50 (96h) > 5000 mg/L |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 64742-65-0 | EC50 (48h) Daphnia magna > 1000 mg/L | No data available | LC50 (96h) Rainbow Trout > 5000 mg/L |
| Alkyl phenol | 125643-61-0 | No data available | No data available | LC50 (96h) DANIO RERIO > 1000 mg/L |
| Highly refined synthetic base stocks | 64742-54-7 | EC50 (48h) Daphnia magna > 1000 mg/L | No data available | LC50 (96h) Rainbow Trout > 5000 mg/L |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | EC50 (48h) Daphnia magna > 1000 mg/L | No data available | LC50 (96h) Rainbow Trout > 5000 mg/L |

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|---|---|
| Persistence and degradability: | Biodegrades slowly. |
| Bioaccumulative potential: | Bioconcentration may occur. |
| Mobility in soil: | This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types. |
| Other adverse effects (such as hazardous to the ozone layer): | None known. |

## 13. Disposal considerations

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|---|---|
| Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: | Spent or discarded material is non-hazardous according to environmental regulations. |
| Contaminated packaging: | Recycle containers whenever possible. |

## 14. Transport information

Carriage of dangerous goods by road (DOT), rail or inland waterways:

| | |
|---|---|
| DOT Basic Description: | Not regulated for road transport |

International carriage of dangerous goods by sea (IMDG/IMO):

| | |
|---|---|
| UN number: | Not regulated by IMDG |
| UN Proper shipping name: | Not applicable |
| Transport hazard class(es): | Not applicable |
| Packing group, if applicable: | Not applicable |

International carriage of dangerous goods by air (IATA):

| | |
|---|---|
| UN number: | Not regulated by IATA |
| UN Proper shipping name: | Not applicable |
| Transport hazard class(es): | Not applicable |
| Packing group, if applicable: | Not applicable |

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|---|---|
| Environmental hazards (e.g., Marine pollutant (Yes/No)): | None. |

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| Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): | No data available |
| Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: | No data available |

## 15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

TSCA Status: All components of this material are on the Active US TSCA Inventory or are exempt.

Regulated Components:

| Chemical Name | CAS # | CERCLA | Sara EHS | Sara 313 | U.S. HAP |
|---|---|---|---|---|---|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | N | N | N | N |
| Highly refined synthetic base stocks | 64742-54-7 | N | N | N | N |
| Alkyl phenol | 125643-61-0 | N | N | N | N |
| Distillates, petroleum, solvent-dewaxed light paraffinic | 64742-56-9 | N | N | N | N |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 64742-65-0 | N | N | N | N |
| Paraffin oils, petroleum, catalytic dewaxed heavy | 64742-70-7 | N | N | N | N |
| Petroleum distillates, solvent-refined heavy paraffinic | 64741-88-4 | N | N | N | N |

| Chemical Name | CAS# | California Prop 65 - Cancer | California Prop 65 - Dev. Toxicity | California Prop 65 - Reprod fem | California Prop 65 - Reprod male |
|---|---|---|---|---|---|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | N | N | N | N |
| Highly refined synthetic base stocks | 64742-54-7 | N | N | N | N |
| Alkyl phenol | 125643-61-0 | N | N | N | N |
| Distillates, petroleum, solvent-dewaxed light paraffinic | 64742-56-9 | N | N | N | N |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 64742-65-0 | N | N | N | N |
| Paraffin oils, petroleum, catalytic dewaxed heavy | 64742-70-7 | N | N | N | N |
| Petroleum distillates, solvent-refined heavy paraffinic | 64741-88-4 | N | N | N | N |

California Prop 65
No ingredient(s) requiring a warning under California Prop 65.

| Chemical Name | CAS# | Massachusetts RTK List | New Jersey RTK List | Pennsylvania RTK List | Rhode Island RTK List | Minnesota Hazardous Substance List |
|---|---|---|---|---|---|---|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | N | N | N | N | N |
| Highly refined synthetic base stocks | 64742-54-7 | N | N | N | N | N |
| Alkyl phenol | 125643-61-0 | N | N | N | N | N |
| Distillates, petroleum, solvent- | 64742-56-9 | Y | N | N | N | N |

| | | | | | | |
|---|---|---|---|---|---|---|
| dewaxed light paraffinic | | | | | | |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 64742-65-0 | N | N | N | N | N |
| Paraffin oils, petroleum, catalytic dewaxed heavy | 64742-70-7 | Y | N | N | N | N |
| Petroleum distillates, solvent-refined heavy paraffinic | 64741-88-4 | N | N | N | N | N |

## 16. Other information, including date of preparation or last revision.

| | |
|---|---|
| SDS Prepared by: | MCHONGOOFAFA |
| Revision Date: | 10-19-2021 |
| Revision Number: | 34 |
| Reason for revision: | Activated by Document Formulation Generation |
| References: | No data available |
| Other Info: | No data available |
| Disclaimer: | This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied. |