



Safety Data Sheet

Product identifier used on the label: **STARFIRE Performance 20W50**
Revision Date: 08-28-2021
Replaces: 08-11-2021

1. Identification

Product identifier used on the label: **STARFIRE Performance 20W50**

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 # | % |
|--|--------------------------|---------------|---------|
| Highly refined synthetic base stocks | No data available | 64742-54-7 | 30 - 60 |
| Residual oils (petroleum), solvent dewaxed | No data available | 64742-62-7 | 15 - 40 |
| Petroleum distillates, hydrotreated heavy paraffinic | No data available | 64742-54-7 | 7 - 13 |
| Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated | No data available | EPA-ACC-17799 | 1 - 5 |

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|--|-------------------|------------|-----------|
| Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) | No data available | 2215-35-2 | 0.5 - 1.5 |
| Benzenamine, ar-nonyl-N-(nonylphenyl)- | No data available | 36878-20-3 | 0.5 - 1.5 |
| Alkenes, C15-18 alpha-, sulfurized | No data available | 67762-55-4 | 0.5 - 1.5 |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | No data available | 64742-65-0 | 0.1 - 1 |
| Petroleum distillates, hydrotreated light paraffinic | No data available | 64742-55-8 | 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:

| | |
|--|--|
| Inhalation: | Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. |
| Eye Contact: | None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard. |
| Skin Contact: | Wash with soap and water. Get medical attention if irritation develops or persists. |
| Ingestion: | No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. 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:

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting

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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.

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

Personal precautions, protective equipment and emergency procedures: No health effects 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: No special spill clean up considerations. Collect and discard in regular trash.

7. Handling and storage

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 |
|--------------------------|-------------------------|-------------------------|---------------------------|---------|---------|
| Highly refined synthetic | 5 mg/m ³ TWA | 5 mg/m ³ TWA | 10 mg/m ³ STEL | No data | No data |

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|--|-------------------------|-------------------------|---------------------------|-------------------|-------------------|
| base stocks | | | | available | available |
| Petroleum distillates, hydrotreated heavy paraffinic | 5 mg/m ³ TWA | 5 mg/m ³ TWA | 10 mg/m ³ STEL | No data available | No data available |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 5 mg/m ³ TWA | 5 mg/m ³ TWA | 10 mg/m ³ 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: No special requirements under normal industrial use.

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

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| Initial boiling point and boiling range (°C): | No data available |
| Flash Point (°C): | 240 |
| 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: | 167.5 |

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 estimated to be non-irritating eyes (Draize score <15 [rabbits]). No hazard in normal industrial use.

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, hydrotreated light paraffinic | Oral LD50 Rat > 5000 mg/kg | Dermal LD50 Rabbit > 2000 mg/kg | Inhalation LC50 (4h) Rat 3900 MG/M3 |
| Distillates, petroleum, | Oral LD50 Rat > 15000 | Dermal LD50 Rabbit > 5000 | Inhalation LC50 (4h) Rat > |

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| solvent-dewaxed heavy paraffinic | mg/kg | mg/kg | 2400 MG/M3 |
| Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) | Oral LD50 Rat 2000 - 5000 mg/kg | Dermal LD50 Rabbit > 3160 mg/kg | |
| Benzenamine, ar-nonyl-N-(nonylphenyl)- | Oral LD50 Rat > 5000 mg/kg | Dermal LD50 Rabbit > 2000 mg/kg | |
| Alkenes, C15-18 alpha-, sulfurized | Oral LD50 Rat > 2000 mg/kg | Dermal LD50 Rabbit > 2000 mg/kg | |
| Petroleum distillates, hydrotreated heavy paraffinic | Oral LD50 Rat > 15000 mg/kg | Dermal LD50 Rabbit > 5000 mg/kg | |
| Residual oils (petroleum), solvent dewaxed | Oral LD50 Rat > 5000 mg/kg | Dermal LD50 Rabbit > 2000 mg/kg | Inhalation LC50 (4h) Rat 2.18 mg/L |
| Highly refined synthetic base stocks | 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, hydrotreated light paraffinic | 64742-55-8 | EC50 (48h) Daphnia magna > 1000 mg/L | No data available | LC50 (96h) Rainbow Trout > 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 |
| Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) | 2215-35-2 | EC50 (48h) Daphnia magna 4 - 6 mg/L | Aquatic ERC50 (96h) 1 - 5 mg/L | LC50 (96h) > 100 mg/L |

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|--|------------|--------------------------------------|-----------------------------------|---|
| Alkenes, C15-18 alpha-, sulfurized | 67762-55-4 | EC50 (48h) Daphnia magna > 100 mg/L | Aquatic ERC50 (72h) > 100 mg/L | LC50 (96h) Rainbow Trout > 100 mg/L |
| Benzenamine, ar-nonyl-N-(nonylphenyl)- | 36878-20-3 | EC50 (48h) Daphnia magna > 100 mg/L | EC50 (72h) Green Algae > 100 mg/L | LC50 (96h) Pimephales promelas (Fathead Minnow) > 1000 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 |
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | EC50 (48h) Daphnia magna > 1000 mg/L | No data available | LC50 (96h) Rainbow Trout > 5000 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 |

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

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

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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

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

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

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| 15. Regulatory information |
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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 |
|--|------------|--------|----------|----------|----------|
| Highly refined synthetic base stocks | 64742-54-7 | N | N | N | N |
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | N | N | N | N |
| Petroleum distillates, | 64742-54-7 | N | N | N | N |

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| hydrotreated heavy paraffinic | | | | | |
| Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated | EPA-ACC-17799 | N | N | N | N |
| Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) | 2215-35-2 | N | N | N | N |
| Alkenes, C15-18 alpha-, sulfurized | 67762-55-4 | N | N | N | N |
| Benzenamine, ar-nonyl-N-(nonylphenyl)- | 36878-20-3 | N | N | N | N |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 64742-65-0 | N | N | N | N |
| Petroleum distillates, hydrotreated light paraffinic | 64742-55-8 | 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 |
|--|---------------|-----------------------------|------------------------------------|---------------------------------|----------------------------------|
| Highly refined synthetic base stocks | 64742-54-7 | N | N | N | N |
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | N | N | N | N |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | N | N | N | N |
| Amines, polyethylenepoly-, reaction products with succinic | EPA-ACC-17799 | N | N | N | N |

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| anhydride polyisobutenyl derivs., borated | | | | | |
| Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) | 2215-35-2 | N | N | N | N |
| Alkenes, C15-18 alpha-, sulfurized | 67762-55-4 | N | N | N | N |
| Benzenamine, ar-nonyl-N-(nonylphenyl)- | 36878-20-3 | N | N | N | N |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 64742-65-0 | N | N | N | N |
| Petroleum distillates, hydrotreated light paraffinic | 64742-55-8 | 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 |
|---|---------------|------------------------|---------------------|-----------------------|-----------------------|------------------------------------|
| Highly refined synthetic base stocks | 64742-54-7 | N | N | N | N | N |
| Residual oils (petroleum), solvent dewaxed | 64742-62-7 | N | N | N | N | N |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | N | N | N | N | N |
| Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl | EPA-ACC-17799 | N | N | N | N | N |

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| derivs., borated | | | | | | |
| Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl)bis(phosphorodithioate) | 2215-35-2 | N | N | N | N | N |
| Alkenes, C15-18 alpha-, sulfurized | 67762-55-4 | N | N | N | N | N |
| Benzenamine, ar-nonyl-N-(nonylphenyl)- | 36878-20-3 | N | N | N | N | N |
| Distillates, petroleum, solvent-dewaxed heavy paraffinic | 64742-65-0 | N | N | N | N | N |
| Petroleum distillates, hydrotreated light paraffinic | 64742-55-8 | Y | N | N | N | N |

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

SDS Prepared by: DB_HAZOX
Revision Date: 08-28-2021
Revision Number: 21
Reason for revision: Activated by Document Formulation Generation
References: No data available
Other Info: No data available

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