

**SAFETY DATA SHEET**

**HEAVY DUTY 10W-40 SYNTHETIC BLEND**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** STARFIRE Heavy Duty Synthetic Blend 10W-40 CJ-4

**Chemical Name:** Motor Oil

**Chemical Family:** Synthetic Blend, Engine Oil Lubricant, Petroleum hydrocarbon

**Product Use:** Motor Oil/Engine Lubricant for Diesel Vehicles

**Distributor:** Coolants Plus, Inc.  
2570 Van Hook Ave.  
Hamilton, OH 45015

**Emergency Spill Numbers:** (800)-424-9300  
Information: 888-258-8723 8am-5pm EST M-F

**2. HAZARD IDENTIFICATION**

**This material is not considered hazardous by OSHA Hazard Communication Standard 29 CFR 1910.1200 Classification of the substance or mixture** Not Classified.

**GHS label elements**

Signal word No Signal Word Not Hazardous  
Hazard Statements No know significant effects or critical hazards

**Precautionary statements**

General Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.  
Prevention P273 Avoid release into the environment.  
Response P391 Collect Spillage  
Storage Not Applicable  
Disposal P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

**Other Hazards**

The mixture consists of substances capable of producing an aspiration hazard. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure, and even death.

**Unknown Acute Toxicity(US)**

20.73 percent of the mixture consists of ingredient(s) of unknown acute toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/Mixture**

Wt. Percent	Component	CAS#	Classification (GHS-US)
0 – 97	Petroleum distillates, solvent dewaxed	64742-65-0	Not Classified
0 - 97	Heavy paraffinic, distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	Not Classified
0.4 – 0.9	Phosphorodithioic acid, O,O-di-C1-14-Alkyl esters, zinc salts	68649-42-3	Aquatic Chronic 3, H402
0 – 0.99	Phenol, 4-dodecyl	104-43-8	Aquatic Chronic 3, H402

**4. FIRST AID MEASURES**

**INHALATION:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

**EYE CONTACT:** If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, flush with water for at least 15 minutes. If irritation persists, obtain medical assistance.

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**SKIN CONTACT:** Remove affected clothing and shoes. Wash with soap and water until no odor remains. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency. Wash clothing before reuse.

**INGESTION:** Do NOT induce vomiting. Immediately get medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by mouth.

**NOTE TO PHYSICIANS:** Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

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## 5. FIRE FIGHTING MEASURES

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### **Suitable extinguishing media:**

Use dry chemical, CO<sub>2</sub>, water spray (FOG) or foam. Use appropriate extinguishing media for surrounding fire.

### **Unsuitable Extinguishing Media**

Avoid solid water stream as it may scatter and spread fire.

### **Specific Hazards Arising from Chemical**

Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposing products may include the following materials. Carbon dioxide and Carbon monoxide.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### **Protective Equipment and Precautions for Firefighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **Personal Precautions**

Put on appropriate personal protective equipment. Evacuate unnecessary personnel.

### **Environmental Precautions**

Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

### **Method for containment**

Stop leak if without risk.

### **Methods for Cleanup**

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled container. Contact competent authorities after a spill.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping as spillage can be slippery on smooth surfaces wither wet or dry. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Precautions for Safe Storage:** Comply with applicable regulations. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE GUIDELINES:

##### COMPONENT EXPOSURE LIMITS

##### Highly Refined Petroleum Lubricating Oil

ACGIH: 5mg/m<sup>3</sup> TWA (sampled by method that does not collect vapor) (related to Oil mist, mineral)  
10 mg/m<sup>3</sup> STEL (sampled by method that does not collect vapor) (related to Oil mist, mineral)  
OSHA Final: 5 mg/m<sup>3</sup> TWA (related to Oil mist, mineral)  
OSHA Vacated: 5mg/m<sup>3</sup> TWA (related to Oil Mist, mineral)  
NIOSH: 5mg/m<sup>3</sup> TWA (related to Oil Mist, mineral)  
10mg/m<sup>3</sup> STEL (related to Oil mist, mineral)

#### Exposure Controls

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personnel Protective Equipment:** Protective goggles, Gloves



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure:** Do not allow the product to be released into the environment.

**Consumer Exposure:** Do not eat, drink or smoke during use.

**OTHER:** Where spills and splashes are likely, facilities storing or using these products should be equipped with emergency eyewash and shower, both equipped with clean water, in the immediate work area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE/ODOR:** AMBER FLUID/PETROLEUM ODOR.

**VAPOR PRESSURE:** LESS THAN 1 MM HG AT 68<sup>o</sup> F (20<sup>o</sup> C)

**MOLECULAR WEIGHT:** N/A

**SOLUBILITY IN WATER:** INSOLUBLE

**EVAPORATION RATE:** N/A

**RELATIVE DENSITY:** 0.885 G/CM<sup>3</sup> AT 60<sup>o</sup> F (15.5<sup>o</sup> C)

**SPECIFIC GRAVITY:** 0.885 (ESTIMATED) (WATER=1) (APPROXIMATELY)

**FLAMMABILITY:** N/A

**FLASH POINT:** 500<sup>o</sup> F (260<sup>o</sup> C) (MINIMUM) (PENSKY-MARTENS)

**FLAMMABLE LIMITS IN AIR:** LOWER: N/A UPPER: N/A

**AUTOIGNITION TEMPERATURE:** N/A

**BOILING POINT:** N/A

**MELTING POINT:** N/A

**PACKING DENSITY:** N/A

**OCTANOL/WATER COEFF:** N.D.

**ODOR THRESHOLD:** N/A

**VAPOR DENSITY:** N/A

**pH:** N/A

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal temperatures and pressures.

**INCOMPATIBLE MATERIALS:** Avoid oxidizing agents and reducing agents.

**REACTIVITY:** Polymerization is not known to occur under normal temperatures and pressures. Not reactive in

11/30/2015

NA=Not Applicable

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water.

**CONDITIONS TO AVOID:** Avoid sparks and open flames.

**HAZARDOUS DECOMPOSITION:** None under normal temperatures and pressures. Also see Section 5:  
**HAZARDOUS COMBUSTION PRODUCTS.**

### 11. TOXICOLOGICAL INFORMATION

**Acute Exposure** – Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure)** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.

**Symptoms/Injuries After Skin Contact:** Repeated or prolonged skin contact may cause irritation.

**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse gastrointestinal effects.

**Chronic Symptoms:** Not Classified

**Information on Toxicological Effects – Ingredients**

**LD50 and LC50 Data**

**Heavy paraffinic, Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)**

LD50 Oral Rat >2000 mg.kg

LD50 Dermal Rabbit >2 g/kg

**Petroleum distillates, solvent dewaxed (64742-65-0)**

LD50 Oral Rat >5000 mg/kg

LD50 Dermal Rabbit >5g/kg

**Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-3)**

LD50 Oral Rat >2000 mg.kg

LD50 Dermal Rat >2000 mg/kg

### 12. ECOLOGICAL INFORMATION

**ECOTOXICITY** - Material may be harmful to aquatic organisms. May cause long term adverse effects in aquatic environments.

**PERSISTENCE/DEGRADABILITY** – Not readily biodegradable.

**BIOACCUMULATIVE POTENTIAL** - No information available for this product.

**MOBILITY IN ENVIRONMENT** – Base oil component(s) – Low solubility and floats; expected to migrate from water to land.

**OTHER ADVERSE EFFECTS** – N/A

**OCTANOL/WATER PARTITION COEFFICIENT** – N/A

**VOLATILE ORGANIC COMPOUNDS** - Negligible

**AQUATIC RELEASE** - Advise authorities if product has entered or may enter watercourses or sewer drains.

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### 13. DISPOSAL INFORMATION

**DISPOSAL:** Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

**USEPA WASTE CODES:** This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use, or contamination by user may change the waste code(s) applicable to the disposal of this product.

### 14. TRANSPORTATION INFORMATION

#### DOT

**PROPER SHIPPING NAME:** Petroleum Lubricating Oil

**HAZARD CLASS:** Not regulated

**ID NUMBER:** Not regulated

**LABEL REQUIRED:** Not regulated

**EMERGENCY RESPONSE GUIDE NUMBER:** N/A Reference North American Emergency Response Guidebook.

**IATA:** Not regulated

### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

SARA 311/312 Hazard Class Delayed (chronic) health hazard

#### US State Regulations

##### Paraffin oils (8012-95-1)

Massachusetts – Right to Know List

New Jersey – Right to Know Hazardous Substance List

Pennsylvania – Right to Know List

#### Canadian Regulations

WHMIS Classification Not Classified

##### Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-3)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class D Division 2 Subdivision B-Toxic material causing other toxic effects.

##### Paraffin oils (8012-95-1)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List) – Concentration 1%

WHMIS Classification Class D Division 2 Subdivision A-Very toxic material causing other toxic effects.

##### Petroleum distillates, solvent dewaxed (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHIS classification criteria

##### Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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### 16. OTHER INFORMATION

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**DATE ISSUED:** November 30, 2015

**SUPERSEDES:**

**REVISION NO.**

**REVISION INFORMATION:** GHS Compliance

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