

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: STARFIRE Conventional Gear Lubricants 80W90, 85W140

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Gear Oil
Recommended restrictions: Not applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer: Coolants Plus, Inc.
2570 Van Hook, Ave.
Hamilton, OH. 45015
Information Phone: +01 888-258-8723

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazardous to the aquatic environment - Acute Category 3
Hazardous to the aquatic environment - Chronic Category 4

2.2. Label elements

Hazard Statements H402 - Harmful to aquatic life.
H413 - May cause long lasting harmful effects to aquatic life.
Precautionary Statements
Prevention P273 - Avoid release to the environment.
Disposal P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Hazards not otherwise classified: Avoid prolonged or repeated skin contact with used fluid.

Unknown acute toxicity (GHS-US)

Unknown Acute Toxicity (Gas): 46.959906 % of the mixture consists of ingredient(s) of unknown toxicity.

SECTION 3: Composition/information on ingredients

Chemical Name	%	CAS #	GHS Classification
Residual oils, petroleum, solvent-refined	30 - 60	64742-01-4	Acute Tox. 4; H332 Acute Tox. 3; H331
Lubricating oils, petroleum, hydrotreated spent	30 - 60	64742-58-1	Aquatic Chronic 4; H413

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not

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SECTION 4: First aid measures

	breathing, give artificial respiration and have a trained individual administer oxygen and get medical attention immediately.
Eyes	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.
Ingestion	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.
4.2. Most important symptoms and effects, both acute and delayed	
Symptoms	Not determined
4.3. Indication of any immediate medical attention and special treatment needed	
Note to Doctor	No additional first aid information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable and Unsuitable 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.
5.2. Special hazards arising from the substance or mixture	
Fire and/or Explosion Hazards	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
5.3. Advice for firefighters	
Fire Fighting Methods and Protection	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.
Hazardous Combustion Products	Carbon monoxide, Hydrogen sulfide, Nitrogen containing gases

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
General Measures:	No adverse health affects expected from the clean up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this SDS.
6.2. Environmental precautions	
	Do not flush to sewer.
	Avoid runoff into storm sewers and ditches that lead to waterways.
	Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.
	Avoid runoff into storm sewers and ditches that lead to waterways.
6.3. Methods and material for containment and cleaning up	
Methods for 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. {EMSFORM_06GHS_CLEAN}
6.4. Reference to other sections	
	Follow all protective equipment recommendations provided in Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	No special handling instructions due to toxicity.
7.2. Conditions for safe storage, including any incompatibilities	
	Store in a cool dry place. Isolate from incompatible materials.
Incompatible materials	See Section 10.
7.3. Specific end use(s)	
	Gear Oil

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Chemical Name	Occupational Exposure Limits	Value
Oil mist, mineral	OSHA PEL	5 mg/m ³
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m ³
Oil mist, mineral	ACGIH STEL	10 mg/m ³
None.	IDLH	
None.	OSHA PEL-Skin Notation	

8.2. Exposure controls

Engineering Measures

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

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

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves

Neoprene

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Brown
Odor	Mild
Odor threshold	Not determined
pH	Not determined
Freezing point	Not determined
Boiling Point	Not determined
Flash Point (°C)	218
Flash Point Method	COC
Evaporation Rate	Not determined
Upper Flammable/Explosive Limit, % in air	Not established
Lower Flammable/Explosive Limit, % in air	Not established
Flammability (solid, gas)	Not applicable
Vapor pressure	Not determined
Vapor Density	Not determined
Relative Density	0.89
Solubility in Water	Negligible; 0-1%
Octanol/Water Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity(°C)	134.8
9.2. Other information	
Volatiles, % by weight	0.000000

SECTION 10: Stability and reactivity

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous	Hazardous polymerization will not occur.

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SECTION 10: Stability and reactivity

reactions

- 10.4. Conditions to avoid** Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.
- 10.5. Incompatible materials** Strong oxidizing agents
- 10.6. Hazardous decomposition products** Carbon monoxide, Hydrogen sulfide, Nitrogen containing gases

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- Ingestion Toxicity** Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. Likely to be practically non-toxic by ingestion based on animal data.
- Skin Contact** Estimated to be non-irritating to skin (Primary Irritation Index is <0.5 [rabbits]). No hazard in normal industrial use.
- Absorption** Likely to be practically non-toxic based on animal data.
- Inhalation Toxicity** 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 and Developmental Toxicity** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
- Specific target organ toxicity-Single exposure** Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
- Specific target organ toxicity-Repeated exposure** Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.
- Aspiration toxicity** Non-hazardous under Aspiration category.
- Other information** No data available.

Agents Classified by IARC Monographs

- | | |
|-----------------|---------------|
| Ethylene oxide | IARC Group 1 |
| Not applicable | IARC Group 2A |
| Vinyl acetate | IARC Group 2B |
| Ethyl acrylate | IARC Group 2B |
| 1,4-Dioxane | IARC Group 2B |
| Propylene oxide | IARC Group 2B |

National Toxicity Program (NTP) Status

- | | |
|-----------------|---|
| Ethylene oxide | Known Human Carcinogen |
| 1,4-Dioxane | Reasonably Anticipated To Be A Human Carcinogen |
| Propylene oxide | Reasonably Anticipated To Be A Human Carcinogen |

SECTION 12: Ecological information

12.1. Toxicity

- Acute Aquatic ecotoxicity:** Non-hazardous under Aquatic Acute Environment category.
- Chronic Aquatic ecotoxicity:** H413 - May cause long lasting harmful effects to aquatic life.

12.2. Persistence and degradability

Biodegrades at a moderate rate.

12.3. Bioaccumulative potential

Bioconcentration may occur.

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SECTION 12: Ecological information

12.4. Mobility in soil

This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods

Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

Waste Disposal Code(s)

Waste Description for Spent Product

Spent or discarded material is non-hazardous according to environmental regulations.

Contaminated packaging:

Recycle containers whenever possible.

Recycle containers whenever possible.

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Recycle containers whenever possible.

SECTION 14: Transport information

DOT Basic Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

Description

SECTION 15: Regulatory information

Chemical Inventories

U.S. State Restrictions: Not applicable

WHMIS: Uncontrolled product according to WHMIS classification criteria.

Chemical Name	Regulation	CAS #	%
None.	CERCLA		
None.	SARA 313		
None.	SARA EHS		
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
None.	California Prop 65- Cancer		
None.	California Prop 65- Dev. Toxicity		
None.	California Prop 65- Reprod -fem		
None.	California Prop 65- Reprod-male		
None.	Massachusetts RTK List		
None.	New Jersey RTK List		
None.	Pennsylvania RTK List		
None.	Rhode Island RTK List		
None.	Minnesota Hazardous Substance List		

HMIS Ratings:

Health: 0

NFPA Ratings:

Health: 0

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Fire:	1	Fire:	1
Reactivity:	0	Reactivity:	0
PPE:	B		

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16: Other information

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References ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
CFR: Code of Federal Regulations
DOT: United States Department of Transportation
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transportation Association
IDLH: Immediately Dangerous to Life or Health
IMDG: International Maritime Dangerous Goods
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
RTK: Right-to-Know
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term Exposure Limit
TLV: Threshold limit value
TSCA: Toxic Substances Control Act
TWA: Time weighted average
UN: United Nations
WHMIS: Workplace Hazardous Materials Information System

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.