

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

1.1. Product identifier

STARFIRE FULL SYNTHETIC TRANSMISSION OIL 40W, 50W **Product Name:**

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

Recommended use: Gear Oil Recommended Not applicable

restrictions:

1.3. Details of the supplier of the safety data sheet

Manufacturer: PennStar

6 Horwith Dr.

Northampton, PA 18067

Information Phone: +01(484)275-7990

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

Skin Sensitisation Category 1

2.2. Label elements **GHS Hazard Symbols**



Signal Word Warning

Hazard Statements H317 - May cause an allergic skin reaction.

Precautionary Statements

Prevention P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

> P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water. Response

P321 - Specific treatment (see section 4).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

Disposal P501- Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3. Other hazards

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

classified:

Unknown acute toxicity (GHS-US)

SECTION 3: Composition/information on ingredients

Chemical Name **GHS** Classification CAS#

0002A385 3 - 7

Material name: KLONDIKE SAE 40 ES Full Synthetic Transmission Fluid SDS US 1/6

SECTION 3: Composition/information on ingredients

8012-95-1 Acute Tox. 3: H331 Mineral oil 1 - 5

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

breathing, give artificial respiration and have a trained individual administer oxygen. Get medical

attention immediately.

Eyes Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to

prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if

irritation develops or persists. Seek medical advice if symptoms persist.

Ingestion Do not induce vomiting and seek medical attention immediately. 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 Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach

contents is necessary, use method least likely to cause aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable and Unsuitable Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may **Extinguishing Media:** 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 Material may be ignited only if preheated to temperatures above the high flash point, for example in

Hazards a fire.

5.3. Advice for firefighters

Fire Fighting Methods and Do not enter fire area without proper protection including self- contained breathing apparatus and

Protection full protective equipment. Use methods for the surrounding fire.

Carbon monoxide, Smoke **Hazardous Combustion**

Products

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

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.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up: No special spill clean up considerations. Collect and discard in regular trash.

{EMSFORM 06GHS CLEAN}

6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer.

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

8.1. Control parameters

Chemical NameOccupational Exposure LimitsValueOil mist, mineralOSHA PEL5 mg/m3Oil mist, mineralOSHA PEL5 mg/m3 TWAOil mist (mineral)OSHA STEL10 mg/m3 STEL

Oil mist, mineral ACGIH TLV-TWA 5 mg/m3

Mineral oil ACGIH TLV-TWA 5 mg/m3 TWA (excluding metal working

fluids, highly & severely refined, inhalable

fraction)

Oil mist, mineral ACGIH STEL 10 mg/m3

Oil mist (mineral) IDLH 2500 mg/m3 IDLH

None. OSHA PEL-Skin Notation

8.2. Exposure controls

Engineering MeasuresUse local exhaust ventilation or other engineering controls to minimize exposures and maintain

operator comfort. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or using

this material should be equipped with an eyewash and safety shower.

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. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Wear a NIOSH approved respirator if any exposure is

possible.

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 chemically resistant safety glasses with side shields when handling this product. Do not wear

contact lenses. Wear goggles and a Face shield.

Skin Protection Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals.

Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Gloves Neoprene, Nitrile

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical StateLiquidColorAmberOdorMild

Odor threshold Not determined PH Not determined Freezing point Not determined

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Not determined **Boiling Point**

Flash Point (°C) 231 **Flash Point Method** COC

Evaporation Rate Not determined Upper Flammable/Explosive Not established

Limit, % in air

Lower Flammable/Explosive Not established

Limit, % in air

Flammability (solid, gas) Not applicable

Vapor pressure < 0.20

Vapor Density Not determined **Relative Density** 0.864-0.9 Solubility in Water Negligible; 0-1% **Octanol/Water Partition** Not determined

Coefficient

Autoignition Temperature Not determined **Decomposition Temperature** Not determined Viscosity(40°C) 106-134.70

9.2. Other information

Volatile organic compound

(VOC) content and percentage of volatiles 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

reactions 10.4. Conditions to avoid Temperatures above the high flash point of this combustible material in combination with sparks,

Hazardous polymerization will not occur.

open flames, or other sources of ignition. Moisture (will lead to product performance degradation).

10.5. Incompatible materials

10.6. Hazardous Carbon monoxide, Smoke

decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion Toxicity No hazard in normal industrial use. Estimated to be > 5.0 g/kg.

Strong oxidizing agents

Skin Contact This material is likely to be slightly irritating to skin based on animal data. This material is

> estimated to be moderately irritating (Primary Irritation Index is 3.0 - 5.0 [rabbits]). Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Likely to be practically non-toxic based on animal data. Absorption

Inhalation Toxicity No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.

This material is estimated to be non-irritating eyes (Draize score <15 [rabbits]). Can cause moderate **Eye Contact**

irritation, tearing and reddening, but not likely to permanently injure eye tissue.

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 No data available to indicate product or any components present at greater than 0.1% may cause

Developmental Toxicity birth defects.

Specific target organ Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.

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SECTION 11: Toxicological information

toxicity-Single exposure

Specific target organNon-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.

toxicity-Repeated exposure

Long-Term (Chronic) Health No data available.

Effects

Aspiration toxicity Non-hazardous under Aspiration category.

Other information No data available.

Agents Classified by IARC Monographs

Not applicable IARC Group 1
Not applicable IARC Group 2A
Not applicable IARC Group 2B

National Toxicity Program (NTP) Status

Not applicable Known Human Carcinogen

Not applicable 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:** Non-hazardous under Aquatic Chronic Environment category.

12.2. Persistence and degradability

Biodegrades slowly.

12.3. Bioaccumulative potential

Bioconcentration may occur.

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 by incineration following Federal, State, Local, or Provincial regulations.

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.

SECTION 14: Transport information

DOT Proper Shipping Name: No data available.

UN Number: Not regulated for road transport

Hazard Class: No data available. Packing Group: No data available.

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

Description

IMDG Proper Shipping Name: No data available.

UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.

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SECTION 14: Transport information

Marine Pollutant: No data available. **IATA Proper Shipping Name:** No data available.

UN Number: No data available. **Hazard Class:** No data available. **Packing Group:** No data available.

SECTION 15: Regulatory information

Chemical Inventories

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

U.S. State Restrictions: Not applicable

Uncontrolled product according to WHMIS classification criteria WHMIS:

CAS# % **Chemical Name** Regulation

CERCLA None. **SARA 313** None. **SARA EHS** None. None. TSCA 12b

U.S. State Regulations

Chemical Name Regulation CAS# %

California Prop 65-None.

Cancer

None. California Prop 65- Dev.

Toxicity

California Prop 65-None.

Reprod -fem

None. California Prop 65-

Reprod-male

Massachusetts RTK List Oil, mineral 8012-95-1 1 - 5 Mineral oils, highly-refined New Jersey RTK List 8012-95-1 1 - 5

Mineral oil Pennsylvania RTK List Rhode Island RTK List None.

Minnesota Hazardous Oil mist, mineral 8012-95-1

Substance List

HMIS Ratings: NFPA Ratings: Health: 2 Health: 2 Fire: 1 Fire: 1

Reactivity: 0 PPE: В

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

8012-95-1

Reactivity:

1 - 5

1 - 5

SECTION 16: Other information

Revision Date 30/04/2019 **Supersedes:** 1/11/2016 References No data available.

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