

MSDS - Material Safety Data Sheet**Product Name: SYNTHETIC POWER STEERING FLUID PROTECTANT**

MSDS No.: M2704SPF

I. Basic Information:**Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:****Contact:** Robert Geer**Information Telephone Number:** 704-684--181 1**Emergency Contact:** Rocky Mountain Poision Control Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** SYNTHETIC POWER STEERING FLUID PROTECTANT**MSDS No.:** M2704SPF**Issue Date:** 12/08/2009**Supersedes Date:** 07/14/2009**II. Hazards Identification:****EMERGENCY OVERVIEW**

Do not take internally

Defined by IARC as Class I mineral oil.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects**Route(s) of Entry:**

Absorption, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See signs and symptoms below

Signs and Symptoms:

Contact with eye can be irritating.

Contact with skin can be irritating.

Inhalation of oil mist and vapors may cause sligh headaches, dizziness, nausea, coughing, bronchial irritation and dryness.

Ingestion of this product may cause cramps & diarrhea.

Medical Conditions Generally Aggravated by Exposure:

None Known

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Alky Acid Phosphate	68307-94-8	1.0 - 5.0	
Amines, Soya alkyl, ethoxylated	61791-24-0	15.0 - 40.0	
Antiwear Additive	Proprietary	1.0 - 5.0	
Benzotriazole derivative	Proprietary	< 0.5	
Hydrotreated Heavy Paraffinic Distillate	64742-54-7	30.0 - 60.0	
Polyalphaolefin	Proprietary	15.0 - 40.0	

IV. First Aid Measures:**Emergency and First Aid Procedures:**

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Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing becomes difficult get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Note to Physicians:

N/E

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unsuitable Extinguishing Media:

Do not use forced water stream as this could cause the fire to spread.

Products of Combustion:

Smoke, carbon oxides, traces of sulfur, phosphorus, and nitrogen oxides.

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes.

VI. Accidental Release Measures:

Personal Precautions:

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautions:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred. Run off to sewer may create fire or explosion hazard.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid to recover material.

Other Information:

Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Handling Precautions:

Handling: Use with adequate ventilation and proper protective equipment. Wash hand before eating. Keep away from children and animals.

Storage Precautions:

Keep container closed tightly when not in use. Store in a cool place below 120 F. Do not expose to strong oxidizing agents.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Polyalphaolefin	5 mg/m3	N/E	Not Available
Hydrotreated Heavy Paraffinic Distillate	5 mg/m3	5 mg/m3	Not Available
Amines, Soya alkyl, ethoxylated	5 mg/m3	Not Available	Not Available
Alky Acid Phosphate	N/E	N/E	Not Available
Antiwear Additive	5 mg/m3	Not Available	Not Available
Benzotriazole derivative	5 mg/m3	Not Available	Not Available

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Engineering Controls:

This product does not contain any components which have recognized exposure limits. However a TLV of 5.0 mg/cubic meter is recommended for oil mist. Maintain adequate ventilation. Avoid breathing vapors or mist. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above recommended TLV limits.

Personal Protective Equipment:

For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:

Boiling Point: N/D

Boiling Range: N/D

Solubility In Water: Negligible, > 0.1%

Flash Point: >300°F

Odor Threshold: N/A

Vapor Density (AIR = 1): > 5

pH Range: N/A

Decomposition Temp: N/D

Lower Explosive Limit: N/D

Specific Gravity (H2O = 1): 0.87

Other Information: Viscosity @ 100°C = 6.83 cSt

Melting Point: N/A

Freezing Point: N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Flash Point Method: TCC

Appearance and Odor: Light to medium amber with slight petroleum odor

Vapor Pressure (mm Hg.): > 0.01 mm Hg @ 20°C

Partition Coefficient: N/A

Auto-Ignition Temp: N/D

Upper Explosive Limit: N/D

X. Stability and Reactivity:

Stability:

Stable

Conditions to Avoid:

See Incompatible Materials below

Incompatible Materials:

Strong oxidizers.

Hazardous Decomposition Products:

Fumes, smoke, carbon oxides .

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in a recycling centers when empty. Before offering for recycling, empty the bottle by using the product according to the label. If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations

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DOT Shipping Name: Not DOT regulated.

DOT Hazard Class: None

XV. Regulatory Information:SARA 313 Reportable Chemicals.
None

USA TSCA: All components of this material are either exempt or listed on the US TSCA Inventory.

State RTK Chemicals:
None**XVI. Other Information:**

Chemical State: Liquid Gas Solid

Chemical Type: Pure Mixture

Hazard Category:

Acute Chronic Fire Pressure Reactive

**Additional Manufacturer Warnings:**

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established
N/D: Not Determined
N/A: Not Applicable
N/AV: Not Available

1	Health
1	Flammability
0	Physical Hazard
C	Pers. Protection

Additional Product Information:

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.