

MSDS - Material Safety Data Sheet**Product Name: STEER SEAL**

MSDS No.: M1712

POWER STEERING Fluid**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:** STEER SEAL**MSDS No.:** M1712**Issue Date:** 07/08/2008**Supersedes Date:** 04/03/2007**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Harmful or fatal if swallowed. Eye and skin irritant. Combustible.

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:

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.

Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.

Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis..

Ingestion: HARMFUL OR FATAL IF SWALLOWED. May cause nausea or stomach cramps.

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
1,2,4-Trimethylbenzene	95-63-6	7.0 - 13.0	
Aromatic Petroleum Distillate	64742-95-6	10.0-30.0	
Chlorinated Paraffin	61788-76-9	7.0 - 13.0	
Diethylbenzene	25340-17-4	1.0 - 5.0	
Ethylbenzene	100-41-4	0.1 - 1.0	
Isopropylbenzene	98-82-8	0.1 - 1.0	
Mesitylene	108-67-8	1.0 - 5.0	
Naphthenic Petroleum Distillate	64742525	40.0-70.0	
Xylene (mixed isomers)	1330-20-7	0.1 - 1.0	

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IV. First Aid Measures:

Emergency and First Aid Procedures:

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/D

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:

Carbon dioxide, carbon monoxide and acrid smoke.

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes. Use shield to protect from rupturing and venting containers. At elevated temperatures containers may vent, rupture or burst, even violently

VI. Accidental Release Measures:

Personal Precautions:

Eliminate all ignition sources. 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 non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material.

Other Information:

All equipment used with handling the concentrate must be grounded. 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.

Do not use or store near fire, sparks, or flame. Do not wear contact lenses when using this product. Keep away from children and animals. Wash hands before eating after handling this product.

Storage Precautions:

Store in a cool dry place below 120°F. Keep away from acids, ignition sources and oxidizing agents. Keep lid closed when not using.

VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Aromatic Petroleum Distillate	N/E	25 ppm	Not Available
Naphthenic Petroleum Distillate	5 mg/m3	5 mg/m3	Not Available
Chlorinated Paraffin	N/E	N/E	Not Available
1,2,4-Trimethylbenzene	N/E	25 ppm	Not Available
Mesitylene	N/A	N/A	Not Available
Diethylbenzene	N/A	N/A	Not Available
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
Isopropylbenzene	50 ppm	50 ppm	Not Available
Ethylbenzene	100 ppm	100 ppm	Not Available

Engineering Controls:

See above Section for applicable exposure limits. Maintain adequate ventilation. Avoid breathing mist. In restricted areas, use approved chemical filters designed to remove mist. In confined areas, use approved air line type respirator or hood. A self-contained breathing apparatus is required for vapor or mist concentrations above TLV limit

Personal Protective Equipment:

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

IX. Physical and Chemical Properties:**Boiling Point:** >350F**Boiling Range:** N/D**Solubility In Water:** Insoluble**Flash Point:** 138°F**Odor Threshold:** N/D**Vapor Density (AIR = 1):** ND**pH Range:** N/A**Decomposition Temp:** N/D**Lower Explosive Limit:** N.D.**Specific Gravity (H2O = 1):** 0.92**Other Information:** % Volatiles by weight - 50%
Soluble in solvent**Melting Point:** N/A**Freezing Point:** N/D**Evaporation Rate (Butyl Acetate = 1):** ND**Flash Point Method:** TCC**Appearance and Odor:** Amber liquid with a petroleum odor**Vapor Pressure (mm Hg.):** ND**Partition Coefficient:** N/D**Auto-ignition Temp:** N/D**Upper Explosive Limit:** N.D.**X. Stability and Reactivity:****Stability:**

Stable

Conditions to Avoid:

Keep away from high temperatures and open flames.

Incompatible Materials:

Oxidizing agents and acids.

Hazardous Decomposition Products:

Normal products of combustion, carbon dioxide, carbon monoxide, and acrid smoke.

Possibility of Hazardous Reactions:

No

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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 can or 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

XIV. Transport Information:**Shipping Name:** Not Available**DOT Hazard Class:** Not Available**UN/NA#:** Not Available**DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available**Transportation Information:**

DOT Shipping Name: Not DOT regulated.

DOT Hazard Class: None

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping purposes.

ICAO/IATA (US)

Shipping Name: Petroleum Product n.o.s. (Aromatic petroleum distillate)

Marine Pollutant

Class: 3

Packaging Group: III

UN number: UN1268

International:

ICAO/IATA

UN number: UN1268

Shipping Name: Petroleum Product n.o.s. (Aromatic petroleum distillate)

Marine Pollutant

Class: 3

Packaging Group: III

IMDG

UN number: UN1268

Shipping Name: Petroleum Product n.o.s. (Aromatic petroleum distillate)

Marine Pollutant

Class: 3

Packaging Group: III

EmS: F:E, S-E

XV. Regulatory Information:

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SARA Reportable Chemicals:
 Aromatic Petroleum Distillate (64742-95-6)
 Chlorinated Paraffin (61788-76-9)
 1,2,4-Trimethylbenzene (95-63-6)
 Diethylbenzene (25340-17-4)
 Xylene (1330-20-7)
 Isopropylbenzene (98-82-8)
 Ethylbenzene (100-41-4)

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

Warning: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

State RTK Chemicals:
 Isopropylbenzene (98-82-8)
 Xylene (1330-20-7)
 Diethylbenzene (25340-17-4)
 Ethylbenzene (100-41-4)

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

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.

