

MSDS - Material Safety Data Sheet**Product Name: DIESEL FUEL SULFUR SUBSTITUTE**

MSDS No.: M7132

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:** DIESEL FUEL SULFUR SUBSTITUTE**MSDS No.:** M7132**Issue Date:** 06/19/2008**Supersedes Date:** 09/27/2007**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Combustible. Harmful or Fatal if Swallowed. Eye and Skin Irritant..

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, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

May cause chronic health effects, 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 and central nervous system effects such as visual impairment, difficulty breathing, and convulsions..

Ingestion: HARMFUL OR FATAL IF SWALLOWED. May cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. May cause central nervous system depression..

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	1.0 - 5.0	
Aliphatic Hydrocarbon Solvent	8052-41-3	60.0 - 100.0	
Mesitylene	108-67-8	3.0 - 7.0	
Naphthalene	91-20-3	< 0.5	
Petroleum naphtha	64742-94-5	1.0 - 5.0	
Trimethyl benzene	25551-13-7	< 0.5	
Xylene (mixed isomers)	1330-20-7	1.0 - 5.0	

MSDS - Material Safety Data Sheet

Product Name: DIESEL FUEL SULFUR SUBSTITUTE

MSDS No.: M7132

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/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 monoxide, carbon dioxide, aldehydes and other products of incomplete

Protection of Firefighters:

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

VI. Accidental Release Measures:

Personal Precautions:

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

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:

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 thoroughly after handling.

Storage: Store in cool, dry area, away from oxidizing agents and sources of ignition. Keep containers closed when not in use.

Storage Precautions:

Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

VIII. Exposure Controls/Personal Protection:

MSDS - Material Safety Data Sheet**Product Name: DIESEL FUEL SULFUR SUBSTITUTE**

MSDS No.: M7132

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Aliphatic Hydrocarbon Solvent	100 ppm	100 ppm	NJ RTK
Mesitylene	N/A	N/A	Not Available
1,2,4-Trimethylbenzene	N/E	25 ppm	Not Available
Petroleum naphtha	N/E	N/E	100 ppm
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
Trimethyl benzene	25 ppm (TWA)	25 ppm (TWA)	Not Available
Naphthalene	10 ppm	10 ppm	Not Available

Engineering Controls:

See above for applicable exposure limits. Maintain adequate ventilation.

Avoid breathing vapors. 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 TLV limits.

Personal Protective Equipment:

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

IX. Physical and Chemical Properties:**Boiling Point:** >300°F**Boiling Range:** Not Available**Solubility In Water:** Slight**Flash Point:** 140°F**Odor Threshold:** Not Available**Vapor Density (AIR = 1):** N/D**pH Range:** N/A**Decomposition Temp:** Not Available**Lower Explosive Limit:** N/D**Specific Gravity (H2O = 1):** 0.86**Other Information:** N/D**Melting Point:** N/A**Freezing Point:** Not Available**Evaporation Rate (Butyl Acetate = 1):** N/D**Flash Point Method:** TCC**Appearance and Odor:** Clean Yellow with mineral spirits odor**Vapor Pressure (mm Hg.):** N/D**Partition Coefficient:** Not Available**Auto-Ignition Temp:** Not Available**Upper Explosive Limit:** N/D**X. Stability and Reactivity:****Stability:**

Material is normally stable at moderately elevated temperatures and pressures.

Conditions to Avoid:

Not Available

Incompatible Materials:

Strong oxidizing agents

Hazardous Decomposition Products:

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

MSDS - Material Safety Data Sheet**Product Name: DIESEL FUEL SULFUR SUBSTITUTE**

MSDS No.: M7132

Skin and eye irritant

Carcinogenicity: Naphthalene has been classified by the International Agency for Research on Cancer (IARC) as a possible carcinogen (Group2B) on the basis of sufficient evidence of carcinogenicity in experimental animals but inadequate evidence in exposed humans.

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): Petroleum Products, n.o.s. (Mineral Spirits)

Class: 3

UN number: UN1268

PG: III

Marine pollutant (Petroleum naphtha).

International:

ICAO/IATA:

UN Number: 1268

Petroleum Products, n.o.s. (Mineral Spirits)

Class: 3

PG: III

Marine pollutant (Petroleum naphtha).

IMDG:

UN Number: UN1268

Petroleum Products, n.o.s. (Mineral Spirits)

Class: 3

PG: III

EmS: F-E, S-E

Marine pollutant (Petroleum naphtha).

XV. Regulatory Information:

SARA 313 Reportable Chemicals.

1,2,4-Trimethylbenzene (95-63-6)

Petroleum Naphtha (64742-94-5)

Xylene (1330-20-7)

Naphthalene (91-20-3)

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

This fuel additive is registered in the United States

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

State RTK Chemicals

Stoddard Solvent (8052-41-3)

1,2,4-Trimethylbenzene (95-63-6)

Naphthalene (91-20-3)

Trimethylbenzene (25551-13-7)

Xylene (1330-20-7)

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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.

