MSDS - Material Safety Data Sheet

Product Name: DIESEL FUEL ANTI-GEL WITH CONDITIONER & CETANE BOOST

MSDS No.: M6932

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 ANTI-GEL WITH CONDITIONER & CETANE BOOST
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Issue Date: 02/05/2009
Supersedes Date: 09/24/2008

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):

May cause chronic health effects. Target organs: central nervous system, blood, eye, heart, kidney, and liver.

Signs and Symptoms:

Eye Contace: 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 burns to mouth, throat & stomach.

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
Petroleum naphtha	64742-94-5	1.0 - 5.0	
1,2,4-Trimethylbenzene	95-63-6	1.0 - 5.0	
2 Ethyl Hexyl Nitrate	27247-96-7	10.0 - 30.0	
Aliphatic Hydrocarbon Solvent	8052-41-3	40.0 - 70.0	
Ethyl benzene	100-41-4	< 0.1	
Mesitylene	108-67-8	1.0 - 5.0	
Naphthalene	91-20-3	0.1 - 1.0	
Trimethyl benzene	25551-13-7	0.1 - 1.0	
Xylene (mixed isomers)	1330-20-7	1.0 - 5.0	

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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/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:

Toxic fumes, gases or vapors may evolve on burning. Vapors may be havier that air and may travel along the ground to a distant ignition source and flash back. Toxic nitrogen oxides may evolve when burning. The alkyl nitrate contained in this product may undergo a self-accelerating exothermic reaction if heated above 212°F. Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

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:

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-metalic 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:

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

VII. Handling and Storage:

Handling Precautions:

Handling: Use with adequate ventilation and proper protective equipment. Wear safety glasses and gloves. Wash throughly after handling. Use good hygiene practices.

Storage Precautions:

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

VIII. Exposure Controls/Personal Protection:

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

IX. Physical and Chemical Properties:

Boiling Point: >300 °F
Boiling Range: Not Available
Solubility In Water: Slight
Flash Point: > 105°F
Odor Threshold: Not Available
Vapor Density (AIR = 1): N.D.
pH Range: Not Available
Decomposition Temp: Not Available
Lower Explosive Limit: N/D
Specific Gravity (H20 = 1): 0.85
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: Clear burnt orange with petroleum 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 can become unstable at elevated temperatures and pressures..

Conditions to Avoid:

See Incompatible Materials below

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

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XI. Toxicological Information:

N/D

XII. Ecological Information:

Marine Pollutant

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

DOT Subsidiary Hazard Class: Not Available

UN/NA#: 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):
UN number: UN1268
DOT Shipping Name: Petroleum Products, n.o.s. (Mineral spirits)
Marine pollutant (Alkyl (C7-C9) nitrate).
Class: 3
PG: III

International: ICAO/IATA:
UN number: UN1268
DOT Shipping Name: Petroleum Products, n.o.s. (Mineral spirits)
Marine pollutant (Alkyl (C7-C9) nitrate)
Class: 3
UN number: UN1268
PG: III

IMDG:
UN number: UN1268
DOT Shipping Name: Petroleum Products, n.o.s. (Mineral spirits)
Marine pollutant (Alkyl (C7-C9) nitrate)
Class: 3
PG: III
EmS: F-E, S-E

XV. Regulatory Information:

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SARA 313 Reportable Chemicals:
Petroleum Naphtha 64742-94-5
1,2,4-Trimethylbenzene 95-63-6
Ethyl Benzene 100-41-4
Naphthalene 91-20-3
Xylene 1330-20-7

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(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

State RTK Chemicals:
Aliphatic Hydrocarbon Solvent 8052-41-3
Ethyl Benzene 100-41-4
Naphthalene 91-20-3
Trimethyl Benzene 25551-13-7
Xylene 1330-20-7

XVI. Other Information:

Chemical State: [X] Liquid [ ] Gas [ ] Solid

Chemical Type: [ ] Pure [X] Mixture

Hazard Category:

[X] Acute [X] Chronic [X] 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.