

MSDS - Material Safety Data Sheet**Product Name: FUEL INJECTION AIR INTAKE CLEANER****MSDS No.: M4712EE/6****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 Poison Control Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** FUEL INJECTION AIR INTAKE CLEANER**MSDS No.:** M4712EE/6**Issue Date:** 03/25/2010**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Extremely Flammable. Vapor may cause flash fire. Harmful or fatal if swallowed. Vapor harmful. Eye and skin irritant. Contents under pressure.

Level 3 Aerosol

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:**

Inhalation, eye and skin contact.

Health Hazards (Acute and Chronic):

None known

Signs and Symptoms:

Eye Contact: Direct spray or vapors will irritate and may harm eyes

Skin Contact: Product may cause irritation due to defatting of skin.

Inhalation: High concentrations of vapors may irritate nose and throat and cause symptoms of intoxication such as dizziness, nausea, headache, or indigestion.

Ingestion: May cause blindness if swallowed. Causes irritation, narcosis, and liver and kidney damage.

Medical Conditions Generally Aggravated by Exposure:

known 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

N/D

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
2-Propanone	67-64-1	30-60	
Ethylbenzene	100-41-4	1.0 - 5.0	
Hydrotreated Heavy Paraffinic Distillate	64742-54-7	1.0 - 5.0	
Methanol	67-56-1	1.0 - 3.0	
Propane	74-98-6	7.0 - 13.0	
Toluene	108-88-3	10.0 - 30.0	
Xylene (mixed isomers)	1330-20-7	7.0 - 13.0	

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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 give oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

Note to Physicians:

N/E

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Foam, Dry Chemical (B-C), Carbon Dioxide

Unsuitable Extinguishing Media:

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

Products of Combustion:

Carbon Dioxide, Carbon Monoxide, hydrocarbons.

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 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:

If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Handling Precautions:

Use with adequate ventilation and proper protective equipment. Do not use near fire, sparks, or open flame. Do not puncture or incinerate container. Exposure to temperatures above 120° may cause container to vent, rupture, or burst. Contact lenses may cause further damage in case of splash into eye.

Storage Precautions:

Do not used in confined area without proper ventilation. Do not store near fire, sparks, or open flame, above 120°F. Do not store with oxidizers.

VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Toluene	100 PPM	100 PPM	Not Available
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
Methanol	200 PPM	200 PPM	Not Available
Propane	N/E	1000 ppm	Not Available
Ethylbenzene	100 ppm	100 ppm	Not Available
2-Propanone	1000 ppm	750 ppm	Not Available
Hydrotreated Heavy Paraffinic Distillate	5 mg/m3	5 mg/m3	Not Available

Engineering Controls:

See Section 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:** >100°F**Boiling Range:** Not Available**Solubility In Water:** Partial solubility**Flash Point:** 0 - 20°F**Odor Threshold:** Not Available**Vapor Density (AIR = 1):** N/D.**pH Range:** N/A**Decomposition Temp:** Not Available**Lower Explosive Limit:** 1.8%**Specific Gravity (H2O = 1):** 0.80**Other Information:** Vapor Pressure: 106-108 psig

Container Pressure: 45 psig

Solubility in Solvent: Complete

VOC content (CARB): 45.00%

Melting Point: N/A**Freezing Point:** Not Available**Evaporation Rate (Butyl Acetate = 1):** > 1.0**Flash Point Method:** TCC**Appearance and Odor:** Clear liquid with solvent odor.**Vapor Pressure (mm Hg.):** Not Available**Partition Coefficient:** Not Available**Auto-Ignition Temp:** Not Available**Upper Explosive Limit:** 9.5%**X. Stability and Reactivity:****Stability:**

Product is stable

Conditions to Avoid:

See Incompatible materials below.

Incompatible Materials:

Avoid contact with strong oxidizers

Hazardous Decomposition Products:

Carbon Dioxide, Carbon Monoxide, hydrocarbons.

Possibility of Hazardous Reactions:

Will not occur.

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XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! 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 Hazard Class: ORM-D

Shipping Name: Consumer Commodity

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

ICAO/IATA (US)

Shipping Name: Aerosols

Class: 2.1

UN number: UN1950

International:

ICAO/IATA

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

IMDG

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

EmS: F-D, S-U

XV. Regulatory Information:

SARA 313 Reportable Chemicals:

Toluene 108-88-3

Xylene 1330-20-7

Methanol 67-56-1

Ethylbenzene 100-41-4

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

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

State RTK Chemicals:

Toluene 108-88-3

Xylene 1330-20-7

Methanol 67-56-1

Ethylbenzene 100-41-4

Propane 74-98-6

2-propanone 67-64-1

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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.

2	Health
4	Flammability
0	Physical Hazard
H	Pers. Protection