

**MSDS - Material Safety Data Sheet****Product Name: THRUST QUICK STARTING FLUID**

MSDS No.: M3815

**I. Basic Information:**

Manufacturer: RADIATOR SPECIALTY COMPANY

Address: 600 RADIATOR ROAD

City, ST Zip: INDIAN TRAIL, NC 28079

Emergency Contact: Rocky Mountain Poison Control Center

Emergency Telephone Number: 303-623-5716

Contact: Robert Geer

Information Telephone Number: 704-688-3430

Last Update: 07/24/2007

Expiration Date:

Chemical State: ☒ Liquid ☐ Gas ☐ SolidChemical Type: ☒ Pure ☐ Mixture

2	Health
4	Flammability
0	Reactivity
H	Pers. Protection

**II. Ingredients:**☐ Trade Secret

CAS No.	Chemical Name	% Range	EHS	IARC	SARA	OSHA PEL	ACGIH TLV	Other Limits
			NTP	SUB Z	313			
124-38-9	Carbon dioxide	1.0 - 10.0				N/AV	5000 ppm	
60-29-7	Ethane, 1,1'-oxybis-	15.0 - 40.0				400 ppm	400 ppm	
142-82-5	Heptane	40.0 - 70.0				500 ppm	400 ppm	
64742-52-5	Naphthenic Petroleum Distillate	< 1.0				5 mg/m3	5 mg/m3	
64742-53-6	Naphthenic Petroleum Oil	< 1.0				5 mg/m3	5 mg/m3	

**III. Hazardous Identification:**

Hazard Category:

☒ Acute☐ Chronic☒ Fire☒ Pressure☐ Reactive

Hazardous Identification Information:

DANGER: EXTREMELY FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. VAPOR TOXIC. EXCESSIVE INHALATION MAY BE FATAL. VAPORS MAY CAUSE FLASH FIRES. EYE IRRITANT. CONTENTS UNDER PRESSURE.

Level 3 Aerosol

**IV. First Aid Measures:**

Route(s) of Entry:

Inhalation, eye and skin contact.

Health Hazards (Acute and Chronic):

See signs and symptoms below.

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: Gastrointestinal irritation, nausea, cramps, diarrhea. May be harmful or fatal if swallowed..

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**Medical Conditions Generally Aggravated by Exposure:**

None Known

**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.

**Other Health Warnings:**

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

### ***V. Fire Fighting Measures:***

**Flash Point:** < 0°F

**Lower Explosive Limit:** N/D

**Upper Explosive Limit:** N/D

**F.P. Method:**

**Fire Extinguishing Media:** Foam, Dry Chemical (B-C), Carbon Dioxide

**Special Fire Fighting Procedures:**

Wear self-contained, positive pressure breathing apparatus and protective clothing. Use water fog to keep container cool.

Protect from venting, rupturing, and bursting containers.

**Unusual Fire and Explosion:**

At temperatures above 120°F, containers may vent, rupture, or burst, even violently. Contents under pressure. Do not use near fire, sparks, or flame.

### ***VI. Accidental Release Measures:***

**Steps to be Taken in Case Material is Released or Spilled:**

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc). 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. 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:***

**Precautions to be Taken:**

Use with adequate ventilation and proper protective equipment.

Do not use or store near fire, sparks, open flame or heat sources. Do not puncture or incinerate container. Exposure to temperatures above 120° may cause container to vent, rupture, or burst. Store in a cool, dry place, out of direct sunlight.

**Other Precautions:**

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!

### ***VIII. Exposure Controls/Personal Protection:***

**Ventilation Requirements:**

See Section 2 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:**

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See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

## ***IX. Physical and Chemical Properties:***

**Boiling Point:** N/D

**Melting Point:** N/A

**Evaporation Rate (Butyl Acetate = 1):** N/D

**Vapor Pressure (mm Hg.):** N/D

**Specific Gravity (H<sub>2</sub>O = 1):** 0.68500

**Vapor Density (AIR = 1):** N/D.

**Solubility In Water:** Partial solubility

**Appearance and Odor:**

**Other Information:** % VOC: 93%

Clear liquid with solvent/ether odor

## ***X. Stability and Reactivity:***

**Stability:**

Product is stable

**Incompatibility (Materials to Avoid):**

Avoid contact with oxidizing agents.

**Decomposition/By Products:**

Carbon Dioxide, Carbon Monoxide.

**Hazardous Polymerization:**

Will not occur.

## ***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:***

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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

EmS: F-D, S-U

## ***XV. Regulatory Information:***

See Section 2 for SARA Reportable Chemicals.

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

## ***XVI. Other Information:***

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

**WEARING CONTACT LENSES WHEN HANDLING THIS MATERIAL IS INADVISABLE! KEEP AWAY FROM CHILDREN AND ANIMALS.**

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