

# *MSDS - Material Safety Data Sheet*

## *Product Name: CITRUS ENGINE BRITE ENGINE CLEANER & DETAILER (UPC: 078698117683)*

*MSDS No.: CEB1*

### **I. Basic Information:**

**Manufacturer:** RADIATOR SPECIALTY COMPANY

**Contact:** Robert Geer

**Address:** 600 RADIATOR ROAD

**Information Telephone Number:** 704-684--181 1

**City, ST Zip:** INDIAN TRAIL, NC 28079

**Emergency Contact:** RMPDC (877-740-5015)

**Country:**

**Emergency Telephone Number:** 303-623-5716

**Emergency Restrictions:**

**Product Name:** CITRUS ENGINE BRITE ENGINE CLEANER & DETAILER (UPC: 078698117683)

**MSDS No.:** CEB1

**Issue Date:** 09/15/2010

**Supersedes Date:** 07/14/2010

### **II. Hazards Identification:**

#### **EMERGENCY OVERVIEW**

Flammable. Harmful or Fatal if Swallowed. 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:**

Absorption, Eye, 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. .

##### **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:**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>% Range</b>	<b>Trade Secret</b>
Carbon dioxide	124-38-9	1.0 - 5.0	
De Limonene	5989-27-5	5.0 - 10.0	
Hydrocarbon Fluid	64742-47-8	15.0 - 40.0	
Isopropylamine Dodecylbenzene Sulfonate	26264-05-1	0.1 - 1.0	
Methyl soyate	67784-80-9	15.0 - 40.0	
Polyoxyethylene Hexaoleate	57171-56-9	1.0 - 5.0	
Refined Soybean Oil	8001-22-7	15-40	
Tripropylene Glycol Monomethyl Ether	25498-49-1	3.0 - 7.0	

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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:**

Carbon Monoxide, carbon dioxide. Smoke may be acrid and fumes irritating.

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

##### **Storage Precautions:**

Store in cool, well ventilated area below 120°F away from heat sources. Do not use near fire, sparks, or open flame. Exposure to sunlight and temperatures above 120° may cause container to vent, rupture, or burst. Do not puncture or incinerate container.

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

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<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Other Limits</b>
Refined Soybean Oil	Not Established	Not Established	10 mg/m3 (mist)
Hydrocarbon Fluid	5 mg/m3	5 mg/m3	Not Available
Carbon dioxide	N/AV	5000 ppm	Not Available
Tripropylene Glycol Monomethyl Ether	N/E	N/E	Not Available
De Limonene	N/E	N/E	Not Available
Polyoxyethylene Hexaoleate	N/E	N/E	Not Available
Isopropylamine Dodecylbenzene Sulfonate	N/E	N/E	Not Available
Methyl soyate	N/E	N/E	Not Available

#### **Engineering Controls:**

See Section above for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

#### **Personal Protective Equipment:**

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

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

**Boiling Point:** 310°F

**Boiling Range:** N/D

**Solubility In Water:** Emulsifies

**Flash Point:** 172°F

**Odor Threshold:** N/D

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

**pH Range:** Not Available

**Decomposition Temp:** N/D

**Lower Explosive Limit:** N/D

**Specific Gravity (H2O = 1):** 0.89

**Other Information:** VOC Content: < 10% (Wt)

**Melting Point:** N/A

**Freezing Point:** N/D

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

**Flash Point Method:** TCC

**Appearance and Odor:** Clear Light Yellow with Citrus Odor

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

**Partition Coefficient:** N/D

**Auto-Ignition Temp:** N/D

**Upper Explosive Limit:** N/D

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

#### **Stability:**

Stable

#### **Conditions to Avoid:**

See Incompatible Materials below

#### **Incompatible Materials:**

Avoid strong oxidizing agents and reducing agents.

#### **Hazardous Decomposition Products:**

Carbon Monoxide, carbon dioxide. Smoke may be acrid and fumes irritating.

#### **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**UN/NA#:** Not Available**DOT Subsidiary Hazard Class:** 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:

None

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

State RTK Chemicals:

Carbon Dioxide 124-38-9

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**XVI. Other Information:**

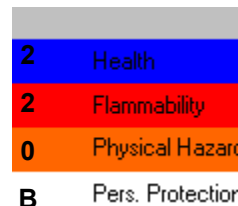
**Chemical State:**     Liquid     Gas     Solid  
**Chemical Type:**     Pure     Mixture  
**Hazard Category:**  
                           Acute             Chronic             Fire  
                           Pressure             Reactive



**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.