

MSDS - Material Safety Data Sheet**Product Name: FOAMY ENGINE BRITE ENGINE CLEANER (UPC: 078698652016) (AAP SKU: 7040326)****MSDS No.: FEB1****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:** Rocky Mountain Poison Control Center**Country:****Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** FOAMY ENGINE BRITE ENGINE CLEANER (UPC: 078698652016) (AAP SKU: 7040326)**MSDS No.:** FEB1**Issue Date:** 08/28/2008**Supersedes Date:** 10/27/2006**II. Hazards Identification:****EMERGENCY OVERVIEW**

Danger: Harmful or Fatal if Swallowed, Eye and Skin Irritant. Contents Under Pressure.

Level 1 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: Direct spray of vapors may be irritating or harmful to eyes.

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

Inhalation: High concentration of vapors may irritate nose and throat and cause headaches and nausea.

Ingestion: Can cause irritation, gastric disturbances, and nausea..

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
2-Butoxyethanol	111-76-2	2-10	
Aromatic Petroleum Naphtha	64742-95-6	2-10	
Isobutane	75-28-5	2-10	
Petroleum Base Oil	8008-20-6	2-10	
Propane	74-98-6	2-10	

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IV. First Aid Measures:

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention.

Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult get prompt medical attention.

Ingestion: Drink water or milk. Call Poison Control Center, physician, or hospital emergency room immediately.

Note to Physicians:

N/D

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:

Normal products of combustion, carbon monoxide, carbon dioxide and Nitrogen oxides.

Protection of Firefighters:

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

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:

Use with adequate ventilation and proper protective equipment.

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.

Storage 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:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
2-Butoxyethanol	25 ppm	25 ppm	Not Available
Petroleum Base Oil	100 ppm	100 ppm	Not Available
Aromatic Petroleum Naphtha	N/E	N/E	25 ppm
Isobutane	1000 ppm	1000 ppm	Not Available
Propane	N/E	1000 ppm	Not Available

Engineering Controls:

See above Section 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: N/D

Boiling Range: Not Available

Solubility In Water: Soluble

Flash Point: 15°F

Odor Threshold: Not Available

Vapor Density (AIR = 1): 1.1

pH Range: 9.0 - 10.0

Decomposition Temp: Not Available

Lower Explosive Limit: N/D

Specific Gravity (H2O = 1): 0.98

Other Information: VOC Content: 18.77%

Melting Point: N/A

Freezing Point: Not Available

Evaporation Rate (Butyl Acetate = 1): <1

Flash Point Method: TCC

Appearance and Odor: Hazy Cream with sweet aromatic 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:

Stable

Conditions to Avoid:

See Incompatible materials below

Incompatible Materials:

Oxidizing agents and acids. Keep away from high temperatures or open flames.

Hazardous Decomposition Products:

Normal products of combustion, carbon monoxide, carbon dioxide and Nitrogen oxides.

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

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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)

UN number: UN1950

Shipping Name: Aerosols

Class: 2.1

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 Reportable Chemicals.

Aromatic Petroleum Naphtha 64742-94-5

2 Butoxyethanol 111-76-2

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

State RTK Chemicals:

2 Butoxyethanol 111-76-2

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XVI. Other Information:

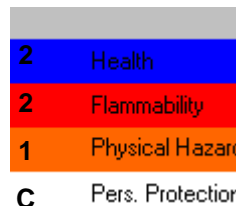
Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture
Hazard Category:
 Acute Chronic Fire
 Pressure Reactive



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.