

**MSDS - Material Safety Data Sheet****Product Name: ENGINE BRITE HEAVY DUTY ENGINE DEGREASER**

MSDS No.: EB8

**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:** RMPDC (877-740-5015)**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** ENGINE BRITE HEAVY DUTY ENGINE DEGREASER**MSDS No.:** EB8**Issue Date:** 07/14/2010**Supersedes Date:** 11/13/2008**II. Hazards Identification:****EMERGENCY OVERVIEW**

Harmful or Fatal if Swallowed. Eye and Skin Irritant.

**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:**

Chemical Name	CAS No.	% Range	Trade Secret
Petroleum naphtha	64742-94-5	1.0 - 5.0	
1,2,4-Trimethylbenzene	95-63-6	< 0.1	
Naphthalene	91-20-3	0.1 - 1.0	
Petroleum distillate, Aliphatic	68476-34-6	15.0 - 40.0	
Petroleum Distillate, Hydrotreated Middle	64742-46-7	60.0 - 100.0	
Polyoxyethylene Hexaoleate	57171-56-9	1.0 - 5.0	
Xylene (mixed isomers)	1330-20-7	0.1 - 1.0	

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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:

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 dioxide, carbon monoxide, and various hydrocarbons

#### 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:

Eliminate all ignition sources. 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:

All equipment used with handling the concentrate must be grounded. If run-off occurs, notify proper authorities as required that a spill has occurred.

### VII. Handling and Storage:

#### Handling Precautions:

Handling: Use with adequate ventilation and proper protective equipment. Do not use near fire, sparks, or flame. Do not puncture or incinerate container. Avoid contact with eyes. Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent over-exposure. Avoid contact with eyes. Keep Away From Children and Animals.

#### Storage Precautions:

Store in cool, well ventilated area below 120°F away from heat, fire, sparks or flame.

### 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>
Petroleum distillate, Aliphatic	N/E	100 ppm	N/E
Petroleum naphtha	N/E	N/E	100 ppm
Petroleum Distillate, Hydrotreated Middle	5 mg/m3	5 mg/m3	Not Available
Naphthalene	10 ppm	10 ppm	Not Available
Xylene (mixed isomers)	100 ppm	100 ppm	Not Available
1,2,4-Trimethylbenzene	N/E	25 ppm	Not Available
Polyoxyethylene Hexaoleate	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:** 305°F**Boiling Range:** N/D**Solubility In Water:** Emulifies**Flash Point:** 176°F**Odor Threshold:** N/D**Vapor Density (AIR = 1):** N/D**pH Range:** N/A**Decomposition Temp:** N/D**Lower Explosive Limit:** N/D**Specific Gravity (H2O = 1):** 0.87**Other Information:** VOC Content: < 4% (by wt.)**Melting Point:** N/A**Freezing Point:** N/D**Evaporation Rate (Butyl Acetate = 1):** N/D**Flash Point Method:** TCC**Appearance and Odor:** Red liquid with petroleum 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:**

Avoid heat, sparks, and flames. Avoid incompatible materials.

**Incompatible Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

High temperatures and ignition sources produce products of combustion: carbon monoxide, sulfur-like smoke.

**Possibility of Hazardous Reactions:**

Will not occur.

**XI. Toxicological Information:**

N/D

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N/D

**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**UN/NA#:** Not Available**DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available**Transportation Information:**

Ground Shippments are not regulated by the U.S. Department of Transportation when shipped in packages of 119 gallons or less.

DOT Shipping Name: Not DOT regulated.

DOT Hazard Class: None

Shipping Name: Combustible Liquid, n.o.s. (Petroleum Distillate, Aliphatic)

Class: Combustible Liquid

Packaging Group: PGIII

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): Not regulated

International:

ICAO/IATA: Not regulated

IMDG: Not regulated

**XV. Regulatory Information:**

SARA 313 Reportable Chemicals:

Aromatic Petroleum Distillate 64742-94-5

Naphthalene 91-20-3

Xylene 1330-20-7

1,2,4-Trimethylbenzene 95-63-6

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

Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

State RTK Chemicals:

Naphthalene 91-20-3

Xylene 1330-20-7

1,2,4-Trimethylbenzene 95-63-6

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**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.

