

# MATERIAL SAFETY DATA SHEET

## Radiator Specialty Company

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### MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

### U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration.  
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

### SECTION I GENERAL INFORMATION

PRODUCT NAME	ENGINE BRITE HEAVY DUTY ENGINE CLEANER
PARTS NUMBER	EB-1

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

### SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT. %	C.A.S. NO.	TLV (ACGIH — OSHA —)
Ethoxylated Nonyl Phenol	4-5	9016-45-9	Not available
Aliphatic Petroleum Distillate	80-84	68476-34-6	500 ppm (Air)
Aromatic Petroleum Distillate	8-9	64742-94-5	100 ppm (Air)
2-Butoxy-1-Ethanol	1-2	111-76-2	25 ppm (Skin)
Sodium Petroleum Sulfonate	1-2	68608-26-4	5 mg/m <sup>3</sup>
Carbon Dioxide (Propellant)	1-3	124-38-9	5000 ppm (Air)

Comments: THIS PRODUCT DOES NOT CONTAIN MORE THAN .1% OF ANY KNOWN CARCINOGEN LISTED BY NTP, IARC, OR OSHA.

Components not identified are non-hazardous according to 29 CFR 1910.1200

### SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H <sub>2</sub> O = 1) <u>.86</u>	pH <u>6-7</u>
Solubility in Water <u>Emulsifies</u>	Solubility in Solvent <u>Petroleum</u>
Flash Point (Method) - F° <u>&gt; 135° (TCC)</u>	% Volatiles By Wt. <u>&gt; 90%</u>
Melting Point - F° <u>N/A</u>	Boiling Point - F° <u>305</u>
Vapor Pressure (mmHg) <u>Not available</u>	Vapor Density (Air = 1) <u>1.2</u>
Evaporation Rate (Butyl Acetate = 1) <u>N/A</u>	
Appearance and Odor <u>Amber liquid with petroleum odor</u>	

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Caution: COMBUSTIBLE!  
 Water Fog X Foam X CO<sub>2</sub> X Dry Chemical X

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes. Cool containers with water spray. Use shield to protect from venting or bursting cans.

UNUSUAL FIRE AND EXPLOSION HAZARDS At elevated temperatures containers may vent, rupture or burst, even violently

**SECTION V REACTIVITY DATA**

Stable  Unstable  Corrosive  Hazardous Polymerization? Yes  No

Incompatibilities Strong oxidizing agents.

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

**SECTION VI HEALTH HAZARD INFORMATION**

**Recommended TLV of Product** 100 ppm (Air)

<b>EYE CONTACT</b> Severe irritant. Prolonged exposure may cause eye burns.	<b>SKIN CONTACT</b> Irritant, defatting. Over exposure may cause dermatitis.
<b>INHALATION</b> Over exposure may cause nausea, headache and respiratory irritation	<b>INGESTION</b> HARMFUL OR FATAL IF SWALLOWED!
<b>OTHER</b> N/A	

**SECTION VII EMERGENCY AND FIRST AID PROCEDURES**

<b>EYE CONTACT</b>	Flush with water for at least 15 minutes. If adverse symptoms persist, consult a physician immediately.
<b>SKIN CONTACT</b>	Wash with soap and water thoroughly. Remove contaminated clothing and launder before re-use.
<b>INHALATION</b>	Move to fresh air immediately. Consult a physician if adverse effects continue.
<b>INGESTION</b>	Drink water, DO NOT INDUCE VOMITING!. Consult a physician immediately. DO NOT ADMINISTER ADRENALIN OR EPINEPHRINE!

**SECTION VIII SPECIAL PROTECTION INFORMATION**

CONSUMER	BULK HANDLING (Prolonged Exposure)
<b>RESPIRATORY PROTECTION</b> N/A	NIOSH approved respirator.
<b>VENTILATION</b> Use with adequate ventilation	General.
<b>EYE PROTECTION</b> Goggles.	Fully protective goggles or face shield.
<b>PROTECTIVE CLOTHING</b> N/A	Solvent resistant gloves and apron.

**SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE**

**SPILL OR LEAK PROCEDURE** Observing health hazards described above, ventilate area, remove ignition sources. Flush residue with water, confine spill and place in drum.

**WASTE DISPOSAL METHOD** Dispose of in accordance with all applicable government laws and regulations.

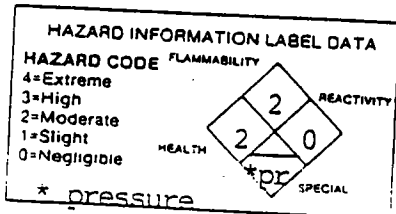
**STORAGE AND HANDLING PRECAUTIONS** Store in cool place away from ignition sources

**OTHER PRECAUTIONS** COMBUSTIBLE! KEEP AWAY FROM CHILDREN AND ANIMALS! Wearing of contact lenses is inadvisable. Do not puncture or incinerate containers.

Supersedes November, 1990

OSHA Revised January, 1993

Title L. Liebman, Tech. Director



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