

MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

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POISON INFORMATION & EMERGENCY: 303-623-5716

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.

US 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
PART 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	3-5	9016-45-9	Not available
Aliphatic Petroleum Distillate*	80-88	68476-34-6	500 ppm (Air)
Aromatic Petroleum Distillate	6-9	64742-94-5	100 ppm (Air)
2 Butoxy, Ethanol *	1-2	111-76-2	25 ppm (Skin)
Alkyl Aryl Sulfonate	<1	78330-12-8	5 mg/m ³
Carbon Dioxide (Propellant)	1-3	124-38-9	5000 ppm(Air)

* THIS CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 SARA TITLE III.

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

Comments:

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

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1)	.86	pH	N/A
Solubility in Water	Emulsifies	Solubility in Solvent	Petroleum
Flash Point (Method) - F^o	165 ^o (TCC)	% Volatiles By Wt.	90%
Melting Point - F^o	N/A	Boiling Point - F^o	305
Vapor Pressure (mmHg)	Not available	Vapor Density (Air=1)	1.2
Evaporation Rate (Butyl Acetate=1)	N/A		
Appearance and Odor	Amber liquid with petroleum odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Caution: COMBUSTIBLE!

Water Fog	X	Foam	X	CO₂	X	Dry Chemical	X
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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	X	Unstable	Corrosive	NO	Hazardous Polymerization?	Yes	No	X
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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)

EYE CONTACT Severe irritant. Prolonged exposure may cause eye burns.

SKIN CONTACT Irritant, defatting. Over exposure may cause dermatitis

INHALATION Over exposure may cause nausea, headache and respiratory irritation

INGESTION HARMFUL OR FATAL IF SWALLOWED!

OTHER N/A

SECTION VII EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT Flush with water for at least 15 minutes. If adverse symptoms persist, consult a physician immediately.

SKIN CONTACT Wash with soap and water thoroughly. Remove contaminated clothing and launder before reuse.

INHALATION Move to fresh air immediately. Consult a physician if adverse effects continue.

INGESTION Drink water. DO NOT INDUCE VOMITING! Consult a physician immediately.
DO NOT ADMINISTER ADRENALINE OR EPINEPHRINE!

SECTION VIII SPECIAL PROTECTION INFORMATION

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

HAZARD INFORMATION LABEL DATA	
HAZARD CODE	FLAMMABILITY
4 = Extreme	2
3 = High	2
2 = Moderate	0
1 = Slight	*pr
0 = Negligible	SPECIAL
*pr=pressure	HEALTH

Supersedes JUNE 1998

OSHA Revised JUNE 2000

Title R. Geer-CHEMIST

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.