

MSDS - Material Safety Data Sheet**Product Name: GUNK ENGINE CLEANER & DEGREASER****MSDS No.: EBT32ES****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:** USA**Contact:** Robert Geer**Information Telephone Number:** 704-68-4-18 11**Emergency Contact:** Rocky Mountain Poison & Drug Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** GUNK ENGINE CLEANER & DEGREASER**MSDS No.:** EBT32ES**Issue Date:** 12/16/2014**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

Eye 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, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See signs and symptom below.

Signs and Symptoms:

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.

Skin Contact: May cause Irritation. Defatting of tissue, dermatitis may occur.

Inhalation: May cause Irritation to mucous membranes.

Ingestion: May be Harmful if Swallowed.

Medical Conditions Generally Aggravated by Exposure:

None known

Other Health Warnings:

None Known.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
2-Butoxyethoxy-2-ethanol	112-34-5	3.0 - 7.0	
9-Octadecenoic acid	112-80-1	1.0 - 5.0	
Ammonium hydroxide	1336-21-6	0.1 - 1.0	
Citric acid	77-92-9	0.1 - 1.0	
d- limonene Fragrance	5989-27-5	1.0 - 5.0	
Sodium carbonate	497-19-8	0.1 - 1.0	
Triethanolamine	102-71-6	1.0 - 5.0	

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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, give oxygen and 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:

None

Products of Combustion:

Carbon dioxide and carbon monoxide

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes. HDC32 will not be the source of the fire.

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.

Methods for Containment:

Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc).

Methods for Cleanup:

Using a scoop, place contaminated material into an approved chemical waste container.

Other Information:

If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Handling Precautions:

Wash hands after handling. Wear protective safety glasses.

Storage Precautions:

Keep container closed tightly when not in use.

VIII. Exposure Controls/Personal Protection:

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Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Citric acid	N/D	N/D	Not Available
Sodium carbonate	N/E	N/E	Not Available
2-Butoxyethoxy-2-ethanol	N/E	N/E	35 ppm
Triethanolamine	N/E	5 mg/m3	Not Available
Ammonium hydroxide	25 ppm (TWA)	25 ppm	Not Available
9-Octadecenoic acid	N/A	N/A	10 mg/m3
d- limonene Fragrance	N/E	N/E	Not Available

Engineering Controls:

See Section above for applicable exposure limits.

Personal Protective Equipment:

For prolonged exposure to the material, wear safety glasses, gloves, and apron. If exposed to vapor mist, wear approved respirator designed to remove particles of chemicals from the vapor mist.

IX. Physical and Chemical Properties:**Boiling Point:** 212°F**Boiling Range:** N/D**Solubility In Water:** Complete**Flash Point:** None**Odor Threshold:** N/D**Vapor Density (AIR = 1):** N/D**pH Range:** 8.5 - 9.0**Decomposition Temp:** N/D**Lower Explosive Limit:** N/D**Specific Gravity (H2O = 1):** 1.00**Other Information:** N/D**Melting Point:** N/D**Freezing Point:** 32°F**Evaporation Rate (Butyl Acetate = 1):** N/D**Flash Point Method:** TCC**Appearance and Odor:** Light yellow color 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:

None Known

Incompatible Materials:

Strong oxidizers

Hazardous Decomposition Products:

Carbon dioxide and Carbon monoxide.

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 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: DOT (Ground): Not Regulated

DOT Hazard Class: Not Available

UN/NA#: Not Available

DOT Subsidiary Hazard Class: Not Available

Packing Group: Not Available

Transportation Information:

DOT Shipping Name: Not DOT regulated.

DOT Hazard Class: None

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.

2-Butoxyethoxy-2-ethanol (112-34-5)

Ammonium hydroxide (1336-21-6)

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

State RTK Chemicals:

2-Butoxyethoxy-2-ethanol (112-34-5)

Ammonium hydroxide (1336-21-6)

XVI. Other Information:

Chemical State: ☒ Liquid ☐ Gas ☐ SolidChemical 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!

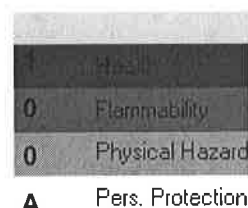
N/E: Not Established

N/D: Not Determined

N/A: Not Applicable

N/AV: Not Available

Additional Product Information:



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