

MSDS - Material Safety Data Sheet**Product Name: GLASS CLEANER WITH AMMONIA (AEROSOL)**

MSDS No.: GCI

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:** Rocky Mountain Poison Control Center**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** GLASS CLEANER WITH AMMONIA (AEROSOL)**MSDS No.:** GC1**Issue Date:** 04/10/2008**Supersedes Date:** 03/06/2007**II. Hazards Identification:****EMERGENCY OVERVIEW**

CAUTION: Eye Irritant, Contents Under Pressure.

N.F.P.A. Level 1 Aerosol

OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product.

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: Prolonged contact 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:

None Known

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
2-Butoxyethanol	111-76-2	1.0 - 5.0	
Ammonium hydroxide	1336-21-6	0.1 - 1.0	
Butane	106-97-8	1.0 - 5.0	
Isopropyl alcohol	67-63-0	1.0 - 5.0	
Propane	74-98-6	1.0 - 5.0	

IV. First Aid Measures:**Emergency and First Aid Procedures:**

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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/E

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Water Fog, Foam, Carbon Dioxide, Dry Chemical

Unsuitable Extinguishing Media:

None

Products of Combustion:

Carbon dioxide, carbon monoxide

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:

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:

Scoop absorbed waste into a chemical waste container. Neutralize remaining traces of material and flush with water followed by liberal covering with sodium bicarbonate. All clean-up material should be removed and placed in approved containers for disposal. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.

Other Information:

None

VII. Handling and Storage:

Handling Precautions:

Use with adequate ventilation. Do not take internally. Do not puncture or incinerate container.

Storage Precautions:

Avoid contact with strong oxidizing agents. Do not expose to heat, flames or sparks. Do not store at temperatures above 120 F.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Ammonium hydroxide	50 ppm (TWA)	25 ppm	Not Available
2-Butoxyethanol	25 ppm	25 ppm	Not Available
Isopropyl alcohol	400 ppm	400 ppm	Not Available
Propane	N/E	1000 ppm	Not Available
Butane	N/E	800 ppm	Not Available

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Engineering Controls:

See Section 2 for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:

Boiling Point: 212 F

Boiling Range: N/D

Solubility In Water: Soluble

Flash Point: None

Odor Threshold: N/D

Vapor Density (AIR = 1): N/D

pH Range: 11 - 12

Decomposition Temp: N/D

Lower Explosive Limit: N/D

Specific Gravity (H2O = 1): 0.98

Other Information: None

Melting Point: N/A

Freezing Point: N/D

Evaporation Rate (Butyl Acetate = 1): < 1

Flash Point Method: TCC

Appearance and Odor: Clear liquid with alcohol-ammonia 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, or flames.

Incompatible Materials:

Avoid contact with strong oxidizing agents

Hazardous Decomposition Products:

Carbon Monoxide, Carbon Dioxide

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

No data available.

XII. Ecological Information:

No data available

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

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DOT Hazard Class: Not Available

DOT Subsidiary Hazard Class: Not Available

UN/NA#: Not Available

Packing Group: Not Available

Transportation Information:

Shipping Name: Consumer Commodity
 DOT Hazard Class: ORM-D

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:

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

Sara 313 Components:
 2-Butoxyethanol: 111-76-2
 Isopropyl Alcohol: 67-63-0

XVI. Other Information:

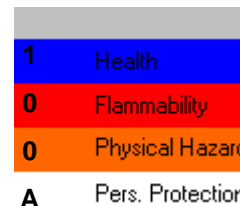
Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture
Hazard Category:
 Acute Chronic Fire
 Pressure Reactive



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.