

MATERIAL SAFETY DATA SHEET

Prepared According to 29 CFR 1910, 1200

N/A (Not Applicable) N/E (Not Established)

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: RAE-COR CLING BOWL CLEANER

CHEMICAL FAMILY: AN AQUEOUS SOLUTION OF HCL ACID, SURFACTANTS, INHIBITORS.

PROPER SHIPPING NAME: N/A
UN#, PACKING GROUP: ORN-D
CONSUMER COMMODITY NONE

HMS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	C

HAZARD RATING

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

SECTION II - HAZARDOUS INGREDIENTS IDENTIFICATION

	%	TLV (UNITS)
HYDROCHLORIC ACID 7447-01-0	<30%	5 PPM

CARCINOGENS: NONE SUSPECTED.
TSCA: ALL COMPONENTS LISTED.

*SUBTITLE III, SECTION 313 LISTED

SECTION IV - FIRE AND EXPLOSIVE HAZARD DATA

FLASH POINT (METHOD USED): NONFLAMMABLE
UPPER EXPLOSIVE LIMIT: N/A LOWER EXPLOSIVE LIMIT: N/A
EXTINGUISHING MEDIA: Use appropriate extinguishing media for the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and full protective clothing (bunker gear) should be worn when fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: NONE

SECTION VI - FIRST AID & HEALTH HAZARD DATA

FIRST AID
EYES: Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids apart. Washing eyes within one minute is essential. Seek immediate medical attention.

SKIN: Wash with plenty of water for 15 minutes. Remove contaminated clothing. Seek medical attention if irritation persists.

INGESTION: Give large quantities of water. DO NOT induce vomiting. If vomiting occurs spontaneously, keep head lower than lungs to prevent aspiration of chemical into lungs. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

INHALATION: Remove victim to fresh air. If person is having difficulty in breathing, perform artificial respiration and get immediate medical attention.

EFFECTS OF OVEREXPOSURE (Primary Route of Entry)

N/E
EYES: CORROSIVE
SKIN: MODERATE TO SEVERE IRRITATION, POSSIBLE BURNS.
INGESTION: NAUSEA, VOMITING, DISCOMFORT.
INHALATION: N/E

SECTION V - STORAGE AND HANDLING

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Use sound industrial hygiene practices. Keep container closed when not in use. Wash after handling. Do not eat, drink or smoke around this or any other chemicals. Read labels and material safety data sheets before using. Store container in dry, cool area.

UNCONTROLLED DOCUMENT IF THIS LINE IS NOT 'RED'

SECTION III - PHYSICAL DATA

PHYSICAL DESCRIPTION:
RED VISCOUS LIQUID
ALMOND SCENT
BOILING POINT (F): 192 DEG F
VAPOR PRESSURE: N/E
% VOLATILE: N/E
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY: 1.036
EVAPORATION RATE: N/E
pH: <1

SECTION VII - REACTIVITY DATA

STABILITY: UNSTABLE _ STABLE X
INCOMPATIBILITY (Materials to Avoid):
STRONG ALKALI AND OXIDIZING AGENTS, AMMONIA.
HAZARDOUS DECOMPOSITION PRODUCTS:
NONE KNOWN
HAZARDOUS POLYMERIZATION: NO

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Wear necessary personal protective equipment.
Evacuate all unnecessary and untrained personnel.
Dike area to prevent spreading of materials. Cover drains.
Cover spill with an inert material (clay, sand) and collect into appropriate containers.
Dispose of in accordance with federal, state and local regulations.

EMPTY CONTAINERS DISPOSAL:

Any disposal practices must be in compliance with federal, state and local laws. Any questions regarding disposal should be directed to the proper government agency.

SECTION IX - SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION..... NIOSH/MSHA APPROVED IF NEEDED.
PROTECTIVE GLOVES..... IMPERVIOUS
EYE PROTECTION..... SAFETY GLASSES OR GOGGLES
VENTILATION..... LOCAL
OTHER PROTECTIVE EQUIPMENT.. Eyewash and emergency shower should be located in the working area.

Contact Information:

RAE-COR DIST COMPANY
1100 NORTH ASHLAND AVENUE
GREEN BAY, WI 54303
920.499.179

Emergency Phone: 800-535-5053 INFOTRAC



Acuity Specialty Products Group,
 Inc.
 P.O. Box 1060
 Cartersville, GA 30120
 1-800-327-7143



Section 1. Chemical Product and Company Identification

Product name Glass Cleaner

Product Code CRGC32-128

Date of issue 01/24/06 **Supersedes** 02/24/03

Emergency Telephone Numbers

For a Medical Emergency:
 INFOTRAC
 (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:
 CHEMTREC
 (800) 424-9300 (Toll Free - Calls Recorded)

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 10	ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s). ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s).
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 10	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact.

Skin May cause skin irritation. Product may be dermal absorbed. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Avoid breathing vapors or spray mists. Over-exposure by inhalation may cause respiratory irritation.

Ingestion May be harmful if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage.

HMIS	
Health	1
Flammability	2
Reactivity	0
Personal Protection	B

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects The substance may be toxic to blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If irritation persists, get medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Product Code: CRG03212	Product Name: Clear Blue
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Section 5. Fire Fighting Measures

Flash Point Closed cup: 43°C (109.4°F). **Flammable Limits** Not available.

Flammability COMBUSTIBLE LIQUID AND VAPOR.

Fire Hazard Cool closed containers exposed to fire with water.

Fire-Fighting Procedures Use DRY chemicals, CO₂, water spray or foam. Fire-fighters should wear proper protective equipment.

**Section 6. Accidental Release Measures**


Spill Clean up Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Section 7. Handling and Storage

Handling Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use with adequate ventilation. Do not ingest. Do not reuse product container. Wash thoroughly after handling.

Storage Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses.	
Body	Gloves: Protective gloves should be worn under normal conditions of use.	
Respiratory	A respirator is not needed under normal and intended conditions of product use.	

Section 9. Physical and Chemical Properties

Physical State	Liquid.	Color	Clear. Blue. (Light.)
pH	9.5-10.5	Odor	Pleasant.
Boiling Point	96.1°C (205°F)	Vapor Pressure	Not determined.
Specific Gravity	0.97 (Water = 1)	Vapor Density	Not determined.
Solubility	Soluble in cold water, hot water.	Evaporation Rate	1 compared to Water
		VOC (Consumer)	38.25 (g/l). 0.32 lbs/gal (3.95%)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Slightly reactive to reactive with oxidizing agents, acids.

Hazardous Polymerization Will not occur.

Hazardous Decomposition carbon oxides (CO, CO₂)

Products

Section 11. Toxicological Information

Toxicity to Animals

Isopropyl Alcohol:

ORAL (LD50): Acute: 4700 mg/kg [Rat].

DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].

VAPOR (LC50): Acute: 22500 ppm 8 hour(s) [Rat (Male)]. 19000 ppm 8 hour(s) [Rat (Female)].

Ethylene Glycol Monobutyl Ether:

ORAL (LD50): Acute: 1746 mg/kg [Rat].

DERMAL (LD50): Acute: 680 mg/kg [Rabbit].

VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat (Female)].

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Non-hazardous waste

Consult your local or regional authorities.

Product Code: GR003-124	Product Name: Glass Cleaner
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Section 14. Transport Information

Proper shipping name	None.
DOT Classification	Not a DOT controlled material (United States).
UN number	Not regulated.
TDG Classification	Not a TDG controlled material.

Section 15. Regulatory Information

U.S. Federal Regulations	SARA 313 toxic chemical notification and release reporting: Ethylene glycol monobutyl ether Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
State Regulations	California prop. 65: No products were found.
WHMIS (Canada)	Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). Class D-1B: Material causing immediate and serious toxic effects (TOXIC). Class D-2B: Material causing other toxic effects (TOXIC).

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.