

1801 Morgan Street  
 Rockford, IL 61102  
 Phone: (815) 968-9661  
 Fax: (815) 968-9731  
 www.gcelectronics.com

Discontinued

MSDS Number: 215  
 Revision Date: 08/23/2013  
 Supersedes Date: 04/09/2010

## MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: GR-R-RIP**

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Type: Cyanoacrylate Adhesive  
 Product Name: **GR-R-RIP**  
 Part Number(s): **19-115**




**Emergency Contact: Chemtrec**  
**Phone: (800) 424-9300**

### SECTION 2: HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

Health	Environmental	Physical
Eye irritation, Category 2A Skin irritation, Category 2 Carcinogenicity, Category 4	Acute Hazards to the Aquatic Environment, Category 2 Chronic Hazards to the Aquatic Environment, Category 2	Combustible liquid, Category 4

#### GHS LABEL

 Environment	 Exclamation mark
WARNING	WARNING
H401: Toxic to aquatic life H411: Toxic to aquatic life with long lasting effects	H320: Causes eye irritation H315: Causes skin irritation
 Health hazard	
DANGER	
H351: Suspected of causing cancer	

#### Precautionary statement(s)

**Prevention:**

P270: Do not eat, drink, or smoke when using this product

**Response:**

P331: Do not induce vomiting

P337+P313: If eye irritation persists: Get medical advice/attention.

P361: Remove/Take off immediately all contaminated clothing.



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**SECTION 2: HAZARDS IDENTIFICATION (CONTINUED)**

**POTENTIAL HEALTH EFFECTS**

**EYES:** May cause eye irritation

**SKIN:** Bonds skin instantly. May cause sensitization.

**INGESTION:** May be harmful if swallowed

**INHALATION:** High concentrations or prolonged overexposure can cause: Asthma, bronchitis & other chronic lung conditions/upper respiratory tract .

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**CHRONIC EFFECTS:** Repeated use may result in irritation of mucus membrane and upper respiratory tract.

**SECTION 3: COMPOSITION / INFORMATION OF INGREDIENTS**

Chemical Name	Wt. %	CAS	EINECS
2-Ethyl cyanoacrylate	> 90	7085-85-0	
Polymethyl methacrylate	1 - 5	9011-14-7	
Bronopol	< 0.1	52-51-7	200-143-0
Buthylated hydroxyanisole	< 0.1	25013-16-5	

**SECTION 4: FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Do not attempt to pull apart bonded eyelid. Seek medical attention.

**SKIN:** After Contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and soap. **Seek medical attention to remove cured material.** Wash contaminated clothing before reusing.

**INGESTION:** Do not induce vomiting. Saliva will cause cyanoacrylate to polymerize in mouth. If lips are bonded together, use warm water to gently separate the lips apart. Contact a physician.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If signs or symptoms persist, seek medical attention.

**NOTES TO PHYSICIAN:** Cured adhesive does not pose a health risk.

**ADDITIONAL INFORMATION:** Skin, lips, eyelids or other body part bonded by cyanoacrylate are best separated by passive nonsurgical first aid. Generally warm water and gentle manipulation will break the cyanoacrylate bond.



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### SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE CLASS:** Combustible liquid

**GENERAL HAZARD:** This product is combustible.

**EXTINGUISHING MEDIA:** SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog, or foam. Do not use water jet.

**EXPLOSION HAZARDS:** None known.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb with an inert material and place in an appropriate waste disposal container

**LARGE SPILL:** Extinguish all sources of ignition. Stop spill or leak at source. Dike if necessary. Absorb with an inert material and place in an appropriate waste disposal container.

**RELEASE NOTES:** Keep spilled material from entering storm drains, sewers, or other environmental mediums.

**COMMENTS:** Disposal of clean-up materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations.

### SECTION 7: HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid handling or clean-up of cyanoacrylate adhesive with cellulose fibers, such as cloth gloves, rags, paper towels, or clothing. A reaction containing cellulose fibers can cause smoke and fumes.

**HANDLING:** To avoid fire, minimize ignition sources. Avoid contact with eyes, skin, and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. May react in presence of moisture. May react or be incompatible with alkalies. Wash thoroughly after handling.

**STORAGE:** Contains moisture sensitive material. Store in a dry, cool, well-ventilated area. Keep away from sources of heat and ignition. Keep container tightly closed when not in use.

**COMMENTS:** Rapid polymerization occurs upon contact with water or alkaline substances. As a result, heat is generated. Skin inflammation or burns may occur upon contact during this polymerization.



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**SECTION 8: EXPOSURE CONTROLS**

**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)						
			EXPOSURE LIMITS			
			OSHA PEL		ACGIH TLV	
Chemical Name			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2-Ethyl cyanoacrylate			TWA	[1]	[1]	0.2 ppm
<b>OSHA TABLE COMMENTS:</b>						
1. Not Established						

**ENGINEERING CONTROLS:** Adequate ventilation may be necessary to control any air contaminants to within the TLV control parameters during the use of this product.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Safety glasses. Wear splash goggles if the potential for splashing or spraying exists.

**SKIN:** Gloves (impervious).

**RESPIRATORY:** In case of insufficient ventilation, wear NIOSH approved respiratory equipment when exposure limits are exceeded.

**PROTECTIVE CLOTHING:** Wear chemically impervious clothing, gloves, boots, aprons and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**WORK HYGIENIC PRACTICES:** Wash hands before eating, smoking, or using restroom. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Acrid

**APPEARANCE:** Transparent liquid

**COLOR:** Clear

**FLASHPOINT AND METHOD:** 83°C Closed Cup

**SOLUBILITY IN WATER:** Insoluble in cold water,

**VISCOSITY #2:** 40 to 75



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**SECTION 10: STABILITY AND REACTIVITY**

- STABILITY:** Water will cause polymerization.
- POLYMERIZATION:** Yes, due to heat generated during polymerization.
- CONDITIONS TO AVOID:** Can react with light or water.
- HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxide, Nitrogen oxide
- INCOMPATIBLE MATERIALS:** Reactive with alkalis, oxidizing agents, and water.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE**

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
2-Ethyl cyanoacrylate	> 5000 Rat / mg/kg	> 2000 Rabbit/mg/kg	
Polymethyl methacrylate	> 2000 Rat / mg/kg	> 3000 Rabbit/mg/kg	> 2 mg/kg
Bronopol	180 Rat / mg/kg		

- DERMAL LD<sub>50</sub>:** > 2000 mg/kg (rat)
- ORAL LD<sub>50</sub>:** > 5000 mg/kg (rat)
- SKIN EFFECTS:** Causes skin irritation.
- SENSITIZATION:** Product may cause skin irritation or sensitization.

**SECTION 12: ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** No information available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your licensed waste contractor for detailed recommendations.



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**SECTION 14: TRANSPORT INFORMATION**

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Combustible liquid n.o.s (2-Ethyl cyanoacrylate)  
**PRIMARY HAZARD CLASS/DIVISION:** Comb liq  
**UN/NA NUMBER:** NA 1993  
**PACKING GROUP:** III

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Aviation regulated liquid n.o.s. (2-Ethyl cyanoacrylate)  
**UN/NA NUMBER:** UN3334  
**PRIMARY HAZARD CLASS/DIVISION:** 9  
**PACKING GROUP:** III

**SECTION 15: REGULATORY INFORMATION**

**UNITED STATES**

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**TSCA STATUS:** There are no ingredients in this product that are listed on the TSCA 12B list

**STATES WITH SPECIAL REQUIREMENTS**

Chemical Name	Requirements
Bronopol	This product contains a component or components listed on the New Jersey Right to Know list of hazardous chemicals.

**REGULATIONS**

**STATE REGULATIONS:** Warning: In accordance with Proposition 65, this product may contain a chemical(s) known to the State of California to cause cancer, birth defects, and/or other reproductive harm. The California Proposition 65 chemical(s) contained in this product are: Butylated hydroxyanisole



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**SECTION 15: REGULATORY INFORMATION (CONTINUED)**

**CALIFORNIA PROPOSITION 65:** This product may contain an ingredient which may be known to cause birth defects, cancer, or other reproductive harm under the statute: Butylated hydroxyanisole

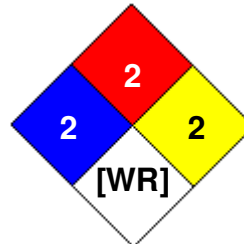
Chemical Name	Wt. %	Listed
Butylated hydroxyanisole	< 0.1	Cancer

**SECTION 16: OTHER INFORMATION**

**HMIS RATING**

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>2</b>
<b>PHYSICAL HAZARD</b>		<b>2</b>
<b>PERSONAL PROTECTION</b>		

**NFPA CODES**



**SECTION 17: DISCLAIMER**

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