



Material Safety Data Sheet: RBA 100 Flex

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CHEMTRAC EMERGENCY #: 1-800-424-9300 1-703-527-3887

Flammability: Medium Health: Medium Reactivity: Medium Specific Hazard: Skin bonding & burning

I. PRODUCT IDENTIFICATION

Product Name: RBA 100 Flex Product Type: Cyanoacrylate Ester

II. COMPOSITION

Hazardous Mixture of Other Liquids, Solids, or Gases

Ingredients:	%	CAS NO.	Carcinogen		
			NTP	IARC	OSHA
Ethyl Cyanoacrylate	95-100	7085-85-0	No	No	No
Hydroquinone	0.1-0.5	123-31-9	No	N/A	N/A
Poly (Methyl Methacrylate)	3-5	9011-14-7	No	N/A	No

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure	Less than 0.2 mm 75 F
Vapor Density	Approximately 3
Solubility in Water	Polymerized by water
Specific Gravity	1.06
Boiling Point	More than 300°F
Volatile Organic Compound (EPA Method 24)	98.8%; 1037.4 g/l
Evaporation Rate: (Ether = 1)	Not available
pH:	Does not apply
Appearance	Clear liquid
Odor	Sharp, Irritating

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point	185° F
Estimated NFPA Code	
Health Hazard	2
Fire Hazard	2
Reactivity Hazard	2
Specific Hazard	No water
Estimated HMIS Code	
Health Hazard	2
Flammability Hazard	2
Reactivity Hazard	2
Personal Protection	See Section X
Explosive Limits	
(% by vol. in air) Lower	Not available
(% by vol. in air) Upper	Not available
Recommended Extinguishing Agents	Carbon dioxide, foam, dry chemical
Hazardous Products Formed by fire or thermal decomp.	Irritating organic fragments
Unusual Fire or Explosion Hazards	Possible exothermic reaction leading to substrate ignition and fume generation.
Compressed Gases	None
Pressure at room temp.	Does not apply

V. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak:	Flood with water to polymerize. Soak up with an inert absorbent.
Recommended methods of disposal:	Polymerize as above. Incinerate following EPA and local regulations.

VI. STORAGE AND HANDLING PROCEDURES

Storage	Store below 75°F to maximize shelf life.
Handling	Avoid contact with skin and eyes. Avoid breathing vapors.

VII. SHIPPING REGULATIONS

DOT (49 CFR 172)

Proper shipping name	Ground:	Unrestricted (not more than 110 gallons); combustible liquid n.o.s. (cyanoacrylate ester solution) (more than 110 gallons)
	Air:	Unrestricted (not more than 1 pint); ORM-A, n.o.s. (cyanoacrylate ester) (1 to 110 gallons); Combustible liquid n.o.s. (cyanoacrylate ester) (more than 110 gallons).
Hazard class or division	Ground:	Unrestricted (not more than 110 gallons); combustible liquid (more than 110 gallons).
	Air:	Unrestricted (not more than one pint); ORM-A, n.o.s.(cyanoacrylate ester) (one pint to 110 gallons); Combustible liquid (more than 110 gallons).
Identification Number	None	
IATA Proper Shipping Name	Unrestricted (not more than one pint); Other regulated substances (more than one pint); Unrestricted (not more than one pint)	
Class or Division	Class 9 (more than one pint)	
UN or ID number	None (not more than one pint) ID 8027 (not more than one pint)	
IMO		
Substance	Not Available	
Marine Pollutant Status	Not Available	
Class	Not Available	
Subsidiary Risk Label	Not Available	
IMDG Code Page	Not Available	
UN Number	Not Available	

VIII. REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur
 Hazardous Decomposition Products (non-thermal): None
 Incompatibility: Polymerized by contact with water, alcohol's, amines, alkaline substances

IX. PERSONAL PROTECTION

Respiratory protection (type) None needed for normal use.
 Eyes: Safety glasses or goggles.
 Skin: Polyethylene gloves recommended. Do not use cotton gloves.
 Ventilation: Positive down-draft exhaust ventilation should be provided to maintain vapor concentrations below TLV.
 Other protective equipment: Polyethylene/polypropylene coats or aprons (not rubber or cotton)

X. HEALTH HAZARD DATA

Toxicity: Bonds skin rapidly and strongly. Skin and eye irritant. Estimated oral LD 50 more than 5000 mg/kg. Estimated dermal LD 50 more than 2000 mg/kg.

Primary routes of entry: None known

Signs and symptoms of exposure to: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce allergic reactions with asthma-like symptoms in sensitive individuals.

Existing conditions aggravated by exposure: None known

Exposure Limits	ACGIH	OSHA	OTHER
Ingredients	(TLV)	(PEL)	
Ethyl Cyanoacrylate	None	None	2 ppm TWA
Hydroquinone	2 mg/m3 TWA	2 mg/m3 TWA	None

Ingredients	Literature Referenced Target		Carcinogen		
	Organ and other	Health Effects	NTP	IARC	OSHA
Ethyl Cyanoacrylate		LUN SKI	No	No	No
Hydroquinone		No data		No	N/A

Abbreviations: N/A: Not Applicable SKI: Skin LUN: Lung

XI. PREPARATION INFORMATION

Company: RhinoTech, Inc. Prepared by: David Lamps 12/8/97

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