

Duro(R) Quick Gel(R) No-Run Super Glue  
34891

#### I. PRODUCT IDENTIFICATION

Product Name: Duro(R) Quick Gel(R) No-Run Super Glue  
Item No.: 34891  
Product Use: Adhesive  
Formula No.: FMD-103

#### II. HAZARDOUS INGREDIENTS

Ingredients	% by Weight	CAS No.
Ethyl cyanoacrylate	85-90	7085-85-0
Poly (methyl methacrylate)	5-10	9011-14-7
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	5-10	112945-52-5
HYDROQUINONE	0.1-0.5	123-31-9

#### III. PHYSICAL DATA

##### Physical

State/Appearance: Water white gel  
Odour & Odour Threshold: Sharp, irritating  
Specific Gravity: 1.05  
Vapour Pressure: Less than 0.2 mm  
Vapour Density: Approximately 3  
Evaporation Rate:  
(Ether = 1) Not Available  
Boiling Point: Greater than 300°F  
Freezing Point: Not Available  
Volatile Organic Compound  
(EPA Method 24) 85.4%; 897 grams per liter  
Less than 20 g/l (California SCAQMD method 316B)  
pH: Not Applicable  
Coefficient of  
water/oil distribution: Not Available

#### IV. FIRE OR EXPLOSIVE HAZARD

##### Conditions

of Flammability: None  
Means of Extinction: Carbon Dioxide, Foam, Dry Chemical  
Flashpoint (Method): 150 - 200°F Method: Tag Closed Cup  
Upper Flammable Limit: Not Available  
Lower Flammable Limit: Not Available  
Auto-Ignition  
Temperature: Not Available  
Hazardous  
Combustion Products: Irritating organic vapors.

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MATERIAL SAFETY DATA SHEET

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IV. FIRE OR EXPLOSIVE HAZARD

(continued)

Explosion Data - Sensitivity to Static Discharge: Not Applicable

V. REACTIVITY DATA

Conditions causing Chemical Instability: None  
 Substances with which the Product is Unstable: Polymerized by contact with water, alcohols, amines, alkalies.  
 Conditions of Reactivity: None  
 Hazardous Decomposition Products: None

VI. TOXICOLOGICAL PRODUCTS

Route(s) of Entry: None Known  
 Existing Conditions Aggravated by Exposure: None Known  
 Toxicity Information: Estimated oral LD50 more than 5000 mg/kg.  
 Estimated dermal LD50 more than 2000 mg/kg.  
 Effects of Acute Exposure to Product: Skin contact may cause burns.  
 Bonds skin rapidly and strongly.  
 Skin and eye irritant.  
 Effects of Chronic Exposure to Product:

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Ethyl cyanoacrylate	ALG IRR RES	NO	NO	NO
Poly (methyl methacrylate)	IRR	NO	N/A	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
HYDROQUINONE	BLO BNM CNS EYE IMM IRR LIV MUT SKI THY	NO	N/A	NO

Abbreviations

N/A Not Applicable	ALG Allergen
BLO Blood	BNM Bone Marrow
CNS Central nervous system	EYE Eyes
IMM Immune system	IRR Irritant
LIV Liver	MUT Mutagen
NUI Nuisance dust	RES Respiratory
SKI Skin	THY Thyroid

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## VI. TOXICOLOGICAL PRODUCTS

(continued)

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Ethyl cyanoacrylate	0.2 ppm TWA	None	None
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust
HYDROQUINONE	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA 4 mg/m3 STEL
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

Ingredients for which no Exposure Limits have been established are not listed above.

Irritancy of Product: Vapor is irritating to eyes and mucous membranes above TLV. Exposure to vapors above the established limits may cause symptoms of non-allergic asthma.

Sensitization to Product: (See Irritancy of Product)

Carcinogenicity: (See Effects of Chronic Exposure to Product)

Reproductive Toxicity: (See Effects of Chronic Exposure to Product)

Teratogenicity: (See Effects of Chronic Exposure to Product)

Mutagenicity: (See Effects of Chronic Exposure to Product)

Name of Toxicologically Synergistic Products: Not Available

WHMIS Hazard Class: B.3, D.2.A, D.2.B

## VII. PREVENTATIVE MEASURES

## Personal Protection

Eyes: Safety glasses or goggles.  
 Skin: Nitrile or polyethylene gloves and aprons.  
 Do not use cotton.

Ventilation: See supplemental page for additional information.  
 Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV

Engineering Controls: See "Ventilation" above

Spill or Leak Procedures: Flood with water to polymerize. Soak up with an inert absorbent.

Waste Disposal: Polymerize as above. Incinerate in accordance with Canadian and local regulations.

(Contact Loctite Canada's Customer Service at 905-814-6511 for Shelf Life Information)

Handling Procedures and Equipment:

Store at or below 75 deg. F

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## VII. PREVENTATIVE MEASURES

(continued)

## Special Handling

Information: Avoid contact with skin and eyes. Avoid breathing vapor.

## VIII. FIRST AID MEASURES

Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.  
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.  
Skin Contact: Soak in warm water. See supplemental page for emergency procedures.  
Eye Contact: Flush with water. See supplemental page for emergency procedures.

## IX. SHIPPING INFORMATION

Canadian Transportation  
of Dangerous Goods:

Shipping Name NOT REGULATED  
Classification NOT REGULATED  
Product ID Number NONE

## ICAO/IATA:

Proper Shipping Name Unrestricted (Not more than one pint);  
Aviation regulated liquid, n.o.s., (Cyanoacrylate Ester) (More than one pint)  
Class or Division Unrestricted (Not more than one pint);  
Class 9 (More than one pint)  
UN or ID Number None (Not more than one pint)  
UN 3334 (More than one pint)

## X. PREPARATION INFORMATION

Prepared By: Stephen Repetto  
Title: Research Chemist, Environmental Health & Safety  
Emergency Phone Number: (860) 571-5100  
Revision Date: December 15, 2001 Revision: 0030

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INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF  
HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

## SKIN CONTACT

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

## SKIN ADHESION

First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.

## EYELID TO EYELID OR EYEBALL ADHESION

In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

## ADHESIVE ON THE EYEBALL

Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

## MOUTH

If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips

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with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

#### BURNS

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn.

Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

#### SURGERY

It should never be necessary to use such a drastic method to separate accidentally bonded skin.