ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100

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 $\label{eq:prism} \operatorname{Prism}(\mathbf{R}) \ 454 \ \operatorname{Surf-Insensit} \ \operatorname{Gel} \ \operatorname{Inst} \ \operatorname{Adh} \\ 45440$

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Prism(R) 454 Surf-Insensit Gel Inst Adh

Item No.: 45440

Product Type: Cyanoacrylate ester

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	용
Ethyl cyanoacrylate	7085-85-0	85-90
Poly (methyl methacrylate)	9011-14-7	5-10
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	5-10
HYDROOUINONE	123-31-9	0.1-0.5
nibnogoinoni	123 31 3	0.1 0.3
Ingredients which have	exposure limits	

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Ethyl cyanoacrylate SILICA, AMORPHOUS, FUMED,	0.2 ppm TWA	None	None
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)	ACGIH	OSHA
Ingredients		(TLV)	(PEL)

3. HAZARDS IDENTIFICATION

Toxicity: Skin contact may cause burns.

Bonds skin rapidly and strongly.

Skin and eye irritant.

Primary Routes of Entry: None known

Signs and Symptoms

of Exposure: Vapor is irritating to eyes and mucous membranes

above TLV. Exposure to vapors above the established limits may cause symptoms of

non-allergic asthma.

Existing Conditions

Aggravated by Exposure: None known

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3. HAZARDS IDENTIFICATION

(continued)

Literature Referenced Carcinogen
Ingredients Target Organ and Other Health Effects 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 NO N/A NO

SKI THY

Abbreviations

N/A Not Applicable

BLO Blood

CNS Central nervous system

IMM Immune system

ALG Allergen

BNM Bone Marrow

EYE Eyes

IRR Irritant

IMM Immune system IRR Irritant
LIV Liver MUT Mutagen
NUI Nuisance dust RES Respiratory
SKI Skin THY Thyroid

4. 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.

5. FIRE FIGHTING MEASURES

Flash Point: 150 - 200°F Method: Tag Closed Cup

Recommended

Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting

Procedures: Not available

Hazardous Products formed

by Fire or Thermal Decomp Irritating organic vapors

Unusual Fire or

Explosion Hazards: None

Explosive Limits:

(% by volume in air)Lower $\,$ Not available $\,$

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5. FIRE FIGHTING MEASURES

(continued)

(% by volume in air) Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak: Flood with water to polymerize. Soak up with an

inert absorbent.

7. HANDLING AND STORAGE

Safe Storage: Store at or below 75 deg. F

(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling: Avoid contact with skin and eyes. Avoid breathing

vapor.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.

Skin: Nitrile or polyethylene gloves and aprons.

Do not use cotton.

See supplemental page for additional information.

Ventilation: Positive down-draft exhaust ventilation should be

provided to maintain vapor concentration below TLV

Respiratory Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Water white gel
Odor: Sharp, irritating
Boiling Point: More than 300°F
pH: Does not apply
Solubility in Water: Polymerized by water

Specific Gravity 1.05

Volatile Organic Compound

(EPA Method 24) 85.4%; 897 grams per liter

Less than 20 g/l (California SCAQMD method 316B)

Vapor Pressure: Less than 0.2 mm Vapor Density: Approximately 3

Evaporation Rate

(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Polymerized by contact with water, alcohols,

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10. STABILITY AND REACTIVITY (continued)

amines, alkalies.

Conditions to Avoid: Not available

Hazardous Decomposition

Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of

disposal: Polymerize as above. Incinerate following EPA

and local regulations.

EPA Hazardous Waste

Number NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted (Not more than 450 liters);

Combustible liquids, n.o.s. (Cyanoacrylate ester)

(More than 450 liters)

Hazard Class or

Division: Unrestricted (Not more than 450 liters)
Combustible liquid (More than 450 liters)

Identification Number: None (Not more than 450 liters);

NA 1993 (More than 450 liters)

Marine Pollutant: None

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)

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15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 chemicals are known

to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: 2
Reactivity Hazard: 1

Specific Hazard: Does not apply

2

Estimated HMIS(R) Code:

Health Hazard: 2
Flammability Hazard: 2
Reactivity Hazards: 1

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

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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.

