

Material Safety Data Sheet



Revision Date: 06/11/2004

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name:

495 Super Bonder® Instant Adhesive

Product type:

Cyanoacrylate

Company address: Henkel Corporation

1001 Trout Brook Crossing Rocky Hill, Connecticut 06067

Item number:

49550

Region:

United States

Contact Information: Telephone: 860.571.5100

Emergency telephone: 860.571.5100

Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Ethyl cyanoacrylate

7085-85-0

ACGIH TLV 0.2 ppm TWA OSHA PEL None

OTHER None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Color: Odor:

Clear Colorless to Straw Sharp, Irritating

HEALTH: FLAMMABILITY: PHYSICAL HAZARD:

2 1

Personal Protection:

See Section 8

WARNING:

Physical state:

BONDS SKIN IN SECONDS.

MAY CAUSE EYE AND RESPIRATORY IRRITATION.

COMBUSTIBLE LIQUID AND VAPOR.

Relevant routes of exposure:

Skin, inhalation, eyes

Potential Health Effects

Inhalation:

Exposure to vapors above the established exposure limit results in respiratory irritation which may lead

to difficulty in breathing and tightness in the chest.

Skin contact:

Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic

reaction but due to rapid polymerization at the skin surface, an allergic response is rare.

Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin.

Cured adhesive does not present a health even if bonded to the skin.

Eye contact: Ingestion:

Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is

almost impossible to swallow.

Existing conditions aggravated by

exposure;

Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

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4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. If discomfort persists seek medical attention.

Skin contact:

Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.

Eye contact:

Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.

ingestion:

Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.

Notes to physician:

Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they

should be treated symptomatically after adhesive is removed.

5. FIRE-FIGHTING MEASURES

Flash point:

80°C (176°F) to 93.4°C (200°F) Tagliabue closed cup

Autoignition temperature:

485°C (905°F)

Flammable/Explosive limits-lower %:

Not determined

Flammable/Explosive limits-upper %:

Not determined

Extinguishing media:

Water spray. Dry powder. Foam. Carbon dioxide.

Special fire fighting procedures:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Unusual fire or explosion hazards:

None

Hazardous combustion products:

Trace amounts of toxic and/or Irritating fumes may be released and the use of breathing apparatus is

recommended.

6 ACCIDENTAL RELEASE MEASURES

Environmental precautions:

Ventilate area. Prevent product from entering the drains.

Clean-up methods:

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor.

Cured material can be disposed of as non-hazardous waste.

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7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly

closed until ready for use.

Incompatible products:

No special restrictions on storage with other products.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

B. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor

concentration below established exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection:

Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

Eye/face protection;

Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Llquid Color:

Odor:

Clear Colorless to Straw

Sharp, Irritating **Odor Threshold:**

1-2 ppm

Vapor pressure:

Less than 0.2 mm Hg

pH:

Not applicable Greater than 149°C (300°F)

Boiling point/range: Melting point/range:

Not determined

Specific gravity: Vapor density:

1.1 at 23.9°C (75°F)

Evaporation rate:

Approximately 3

Solubility in water:

Not available

Partition coefficient (n-octanol/water):

Polymerizes in presence of water

Not applicable

VOC content:

Less than 20 g/L (California SCAQMD Method 316B) (estimated)

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Hazardous polymerization:

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

Hazardous decomposition products:

None

Incompatability:

Water, amines, alkalis and alcohols.

Conditions to avoid:

Spontaneous polymerization

11/TOXICOLOGICAL INFORMATION

Product toxicity data:

Acute oral LD50 >5000mg/kg (rat)(estimated). Acute dermal LD50 >2000mg/kg (rabbit)(estimated).

Carcinogen Status

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Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Ethyl cyanoacrylate	No	No	No
7085-85-0			1

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Ethyl cyanoacrylate	Allergen, Irritant, Respiratory
7085-85-0	

12. ECOLOGICAL INFORMATION

Ecological information;

Not known

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number:

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name:

Hazard class or division:

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

Identification number:

NA 1993

Packing group:

None

Exceptions:

(Not more than 450 Liters) Unrestricted

Marine pollutant:

None

International Air Transportation (ICAO/IATA):

Proper shipping name:

Aviation regulated liquids, n.o.s (Cyanoacrylate ester)

Hazard class or division:

9

Identification number:

UN 3334

Packing group:

None

Exceptions:

(Not more than 500ml) Unrestricted

WaterTransportation (IMO/IMDG):

Proper shipping name:

Unrestricted

Hazard class or division:

None

Identification number:

None

Packing group: Marine pollutant:

None None

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15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

None.

CERCLA/SARA Section 302 EHS:

CERCLA/SARA Section 311/312:

CERCLA/SARA 313:

None.

Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive

This product contains the following toxic chemicals subject to the reporting requirements of section 313

of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). None.

California Proposition 65:

No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: WHMIS hazard class;

All components are listed on or are exempt from listing on the Domestic Substances List.

B.3, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by:

C.J. Michaels, Senior Health & Regulatory Affairs Specialist

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