

Material Safety Data Sheet



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| | | 1. CHEMICAL | PRODUCT AND COM | PANY IDENTIP | FICATION | |
|--|--------------------|--|--|--|---|--|
| Product name: Product type: Company address: Henkel Corporation 1001 Trout Brook Cro Rocky Hill, Connection | Fluoreso Cyanoa | | Region: Contact Telepho Emerge | - | 2 / IDH No. 487921 d States 571.5100 | |
| | | 2. COMPOS | ITION/INFORMATION | | ENTS | |
| Hazardous compone Ethyl cyanoacrylate 7085-85-0 | <u>ents</u> | <u>%</u> 60-100 | ACGIH TLV 0.2 ppm TW | A N | IA PEL lone | <u>OTHER</u> None |
| | | 3 | . HAZARDS IDENTIF | ICATION | | |
| Physical state: Color: Odor: | | llow-green to Dark blue- | green FLA | RVIEW LTH: MMABILITY: SICAL HAZARD: | | 2 2 1 |
| WARNING | ; | BONDS SKIN IN SE | Pers ECONDS. AND RESPIRATORY I | onal Protection: | | See Section 8 |
| Relevant routes of | exposure | e: Skin, Inhal | ation, Eyes | | | |
| Potential Health Effe | ects | | | | | |
| Inhalation: Skin contact: Eye contact: | | to difficulty Bonds skir allergic rea Cyanoacry Cured adh Irritating to | to vapors above the establis in breathing and tightness in seconds. May cause ski action but due to rapid polyr dates generate heat on solid esive does not present a he o eyes. Causes excessive te | in the chest. n irritation. Cyano nerization at the skii dification. In rare cirr ealth hazard even if aring. Eyelids may | acrylates have been n surface, an allergio cumstances a large bonded to the skin. bond. | reported to cause c response is rare. drop will burn the skin. |
| Ingestion: Existing conditions exposure: | aggrava | almost imp | ted to be harmful by ingestion possible to swallow. and respiratory disorders. | on. Rapidly polymer | izes (solidifies) and | bonds in mouth. It is |

See Section 11 for additional toxicological information.

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: | 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. | |
| | 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 informati | on on product shelf life contact Henkel Customer Service at (800) 243-4874. | |
| 8. E | XPOSURE CONTROLS / PERSONAL PROTECTION | |
| | | |

Product name: 4306 Flashcure(R) Light Cure Adhesive Fluorescent Low Viscosity 2 of 4

| 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: Color: Odor: Vapor pressure: pH: Boiling point/range: Melting point/range: Specific gravity: Vapor density: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: | Liquid Light yellow-green to Dark blue-green Sharp, Irritating Less than 0.2 mm Hg Not applicable Greater than 149°C (300°F) Not determined 1.017 at 20°C (68°F) Approximately 3 Not available Polymerizes in presence of water Not applicable Less than 2%; 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

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

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 Gro | aund (49 CER)- |
| Proper shipping name: | Combustible liquids, n.o.s. (Cyanoacrylate ester) |
| Hazard class or division: | Combustible liquid |
| Identification number: | NA 1993 |
| Packing group: | None |
| Exceptions: | (Not more than 450 Liters) Unrestricted |
| Marine pollutant: | None |
| International Air Transportation (ICAO | <u>/IATA):</u> |
| Proper shipping name: | Aviation regulated liquids, n.o.s (Cyanoacrylate ester) Greater than 500 ml |
| Hazard class or division: | 9 |
| Identification number: | UN 3334 |
| Packing group: | |
| Exceptions: | (Not more than 500ml) Unrestricted |
| WaterTransportation (IMO/IMDG): | |
| Proper shipping name: | Unrestricted |
| Hazard class or division: | None |
| Identification number: | None |
| Packing group: | None |
| Marine pollutant: | None |
| | 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: | None above reporting de minimus. |
| CERCLA/SARA Section 302 Ens. CERCLA/SARA Section 311/312: | Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive |
| CERCLA/SARA 313: | None above reporting de minimus. |
| | |
| California Proposition 65: | No California Proposition 65 listed chemicals are known to be present. |
| Canada Regulatory Information | |
| | |
| CEPA DSL/NDSL Status: | Contains one or more components listed on the Non-Domestic Substances list. Those components |
| | must be tracked by all Canadian Importers of Record as required by the Canadian Environmental |
| | Protection Agency. They may be imported into Canada in limited quantities. Please contact Product |
| WHMIS hazard class: | Safety and Regulatory Affairs for details. B.3, D.2.B |
| 111110 Hazaru (1833. | 0.0, 0.2.0 |
| | 16. OTHER INFORMATION |
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This material safety data sheet contains changes from the previous version in sections: 15

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