

# **Material Safety Data Sheet**



Issue date: 05/23/2008

#### **Revision Date: 05/23/2008**

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 411 Prism® Clear Toughened Instant Adhesive

 Product type:
 Cyanoacrylate

 Company address:
 Henkel Corporation

 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No.: 41191 / IDH No. 233774 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 <u>%</u> 60-100 ACGIH TLV 0.2 ppm TWA OSHA PEL None OTHER None

## **3. HAZARDS IDENTIFICATION**

			EMERGENCY OVERVIEW	
			HMIS:	
Physical state: Color: Odor:	Liquid Clear Sharp,	Irritating	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	2 2 1 See Section 8
WARNING	:	MAY CAU	KIN IN SECONDS. SE EYE AND RESPIRATORY IRRITATION. FIBLE LIQUID AND VAPOR.	
Relevant routes of e	exposu	re:	Skin, Inhalation, Eyes	
Potential Health Effe	ects			
Inhalation:			Exposure to vapors above the established exposure limit results in re to difficulty in breathing and tightness in the chest.	espiratory irritation which may lead
Skin contact:			Bonds skin in seconds. May cause skin irritation. Cyanoacrylates ha allergic reaction but due to rapid polymerization at the skin surface, a Cyanoacrylates generate heat on solidification. In rare circumstances Cured adhesive does not present a health hazard even if bonded to t	n allergic response is rare. a large drop will burn the skin.
Eye contact: Ingestion:			Irritating to eyes. Causes excessive tearing. Eyelids may bond. Not expected to be harmful by ingestion. Rapidly polymerizes (solidifialmost impossible to swallow.	ies) and bonds in mouth. It is

Existing conditions aggravated by exposure:

See Section 11 for additional toxicological information.

Eye, skin, and respiratory disorders.

## 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 93.3°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.
	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

#### 8. 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: 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):	Liquid Clear Sharp, Irritating Less than 0.2 mm Hg Not applicable Greater than 149°C (300°F) Not determined 1.05 at 23.9°C (75°F) Approximately 3 Not available Polymerizes in presence of water Not applicable		
VOC content:	Less than 2%; 20 g/L (California SCAQMD Method 316B) (estimated)		
Stability:	10. STABILITY AND REACTIVITY         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

EPA hazardous waste number:       Not a RCRA hazardous waste.         Internation Ground (49 CFR):         Proper shipping name:       Combustble ilquids, n.o.s. (Cyanoacrylate ester)         Hazard class of division:       3         Identification number:       NA 1933         Packing group:       None         Exceptions:       (Not more than 450 Liters) Unrestricted         Marine pollutant:       None         International Air Transportation (ICAO/IATA):       Proper shipping name:         Proper shipping name:       (Not more than 450 Liters) Unrestricted         Hazard class or division:       9         Identification number:       UN 334         Packing group:       Locitic SHARED FIELD (US/Canada/EU)         Exceptions:       (Not more than 500ml) Unrestricted         Hazard class or division:       None         WaterTransportation (IMO/IMDG):       Proper shipping name:         Proper shipping name:       Unrestricted         Hazard class or division:       None         United States Regulatory Information       None         United States Regulatory Information:       None.         CERCLA/SARA Section 302 EHS:       None above reporting de minimus.         CERCLA/SARA Section 31273:       Immediate Health Hazard, Delayed Health Hazard, Fire		13. DISPOSAL CONSIDERATIONS
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14. TRANSPORT INFORMATION         US. Department of Transportation Ground (49 CFR):         Proper shipping name:       Combustible liquids, n.o.s. (Cyanoacrylate ester)         Hazard class or division:       3         Identification number:       None         Exceptions:       (Not more than 450 Liters) Unrestricted         Marine pollutant:       None         International Air Transportation (ICAO/IATA):       Proper shipping name:         Proper shipping name:       Aviation regulated liquids, n.o.s (Cyanoacrylate ester)         Hazard class or division:       9         Identification number:       UN 334         Packing group:       Locatite SHARED FIELD (US/Canada/EU)         Exceptions:       (Not more than 500m!) Unrestricted         Hazard class or division:       None         Water Transportation (IMO/IMDE):       Proper shipping name:         Proper shipping name:       Unrestricted         Hazard class or division:       None         Marine pollutant:       None         Marine pollutant:       None         Marine pollutant:       None         CERCLASARA Section 302 EHS:       All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.         TSCA 8 (b) Inventory Status:       All components ar	Recommended method of disposal:	Dispose of in accordance with Federal, State and local regulations.
U.S. Department of Transportation Ground (49 CFR): Proper shipping name: Combustible liquids, n.o.s. (Cyanoacrylate ester) Hazard class of division: 3 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: Loctite SHARED FIELD (US/Canada/EU) Exceptions: (Not more than 500mi) Unrestricted Marine pollutant: None Water Transportation (IMO/IMOG): Proper Shipping name: Unrestricted Hazard class or division: None Marine pollutant: None 15. REGULATORY INFORMATION United States Regulatory Information TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. TSCA 12 (b) Export Notification: None. CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive CERCLA/SARA Section 311/312: None above reporting de minimus. CERCLA/SARA Section 311/312: 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: All components are listed on or are exempt from listing on the Domestic Substances List.	EPA hazardous waste number:	Not a RCRA hazardous waste.
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Packing group: Marine pollutant:       None None         Image: Description of the pollutant:       None None         United States Regulatory Information       15. REGULATORY INFORMATION         United States Regulatory Information       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 Section 311/312: CERCLA/SARA 313:       None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive None above reporting de minimus.         California Proposition 65:       No California Proposition 65 listed chemicals are known to be present.         Canada Regulatory Information       All components are listed on or are exempt from listing on the Domestic Substances List.		None
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United States Regulatory Information         TSCA 8 (b) Inventory Status:       All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.         TSCA 12 (b) Export Notification:       None.         CERCLA/SARA Section 302 EHS:       None above reporting de minimus.         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       All components are listed on or are exempt from listing on the Domestic Substances List.		None
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 Section 311/312: CERCLA/SARA 313:None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive None above reporting de minimus.California Proposition 65:No California Proposition 65 listed chemicals are known to be present.Canada Regulatory InformationAll components are listed on or are exempt from listing on the Domestic Substances List.		15. 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 Section 311/312: CERCLA/SARA 313:None above reporting de minimus. Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive None above reporting de minimus.California Proposition 65:No California Proposition 65 listed chemicals are known to be present.Canada Regulatory InformationAll components are listed on or are exempt from listing on the Domestic Substances List.		
TSCA 12 (b) Export Notification:       None.         CERCLA/SARA Section 302 EHS:       None above reporting de minimus.         CERCLA/SARA Section 311/312:       Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive None above reporting de minimus.         CERCLA/SARA 313:       No California Proposition 65:         No California Proposition 65:       No California Proposition 65 listed chemicals are known to be present.         Canada Regulatory Information       All components are listed on or are exempt from listing on the Domestic Substances List.	United States Regulatory Information	
CERCLA/SARA Section 311/312:       Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive None above reporting de minimus.         California Proposition 65:       No California Proposition 65 listed chemicals are known to be present.         Canada Regulatory Information       All components are listed on or are exempt from listing on the Domestic Substances List.	TSCA 8 (b) Inventory Status: TSCA 12 (b) Export Notification:	
CERCLA/SARA Section 311/312:       Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive None above reporting de minimus.         California Proposition 65:       No California Proposition 65 listed chemicals are known to be present.         Canada Regulatory Information       All components are listed on or are exempt from listing on the Domestic Substances List.	CERCLA/SARA Section 302 EHS:	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:         All components are listed on or are exempt from listing on the Domestic Substances List.	CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard, Fire, Reactive
Canada Regulatory Information         CEPA DSL/NDSL Status:       All components are listed on or are exempt from listing on the Domestic Substances List.	CERCLA/SARA 313:	None above reporting de minimus.
CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.	California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.
	Canada Regulatory Information	

#### **16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: Updated Revision Date Only

Prepared by:

C.J. Michaels, Manager, Regulatory Affairs

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