

Revision Number: 003.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

LOCTITE 380 BLACK MAX 28G AU Cyanoacrylate

Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 IDH number: 1455413 Item number: 38050 Region: **United States** Contact information: Telephone: 860.571.5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

	E	MERGENCY OVERVIEW HMIS:	
Color:	Liquid Black Irritating	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	*2 2 1 See MSDS Section 8
WARNING:	BONDS SKII	BLE LIQUID AND VAPOR. N IN SECONDS. E EYE AND RESPIRATORY TRACT IRI	
Relevant routes of exposure	e: Skin, Inha	lation, Eyes	
Potential Health Effects			
Inhalation:		to vapors above the established exposure limit re- to difficulty in breathing and tightness in the chest.	
Skin contact: Eye contact:	Cyanoacry skin. Cure in seconds reaction b	ylates generate heat on solidification. In rare circuled adhesive does not present a health hazard ever s. May cause skin irritation. Cyanoacrylates have ut due to rapid polymerization at the skin surface, o eyes. Causes excessive tearing. Eyelids may bo	mstances a large drop will burn the n if bonded to the skin. Bonds skin been reported to cause allergic an allergic response is rare.
Ingestion:	Not expec	ted to be harmful by ingestion. Rapidly polymerize	
Existing conditions aggrava exposure:	ated by Eye, skin,	and respiratory disorders.	
	This mate 1910.1200	rial is considered hazardous by the OSHA Hazard	Communication Standard (29 CFR

See Section 11 for additional toxicological information.

CAS NUMBER Hazardous components % Ethyl 2-cyanoacrylate 7085-85-0 60 - 100 Ethylene Copolymer Rubber Proprietary 5 - 10 Carbon black 1333-86-4 1 - 5

123-31-9

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hydroquinone

0.1 - 1

4	I. FIRST AID MEASURES
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apar using a blunt instrument. If skin is burned due to the rapid generation of he by a large drop, seek medical attention. If lips are bonded, apply warm wate to the lips and encourage wetting and pressure from saliva in mouth. Peel of 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 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 th adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymeriz 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. Saliv 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. Experien has shown that bonded tissues are best treated by passive, non-surgical fir aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.
5.	FIRE FIGHTING MEASURES
Flash point:	80 - 93.3 °C (176°F - 199.94 °F)
Autoignition temperature:	485 °C (905°F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Extinguishing media:	Foam Dry powder. Water spray or fog. Carbon dioxide.
Special firefighting procedures:	Wear a self-contained breathing apparatus with a full face piece operated ir

Special firefighting procedures:Wear a self-contained breathing apparatus with a full face piece operated in
pressure-demand or other positive pressure mode.Unusual fire or explosion hazards:NoneHazardous 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

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Ventilate area. Do not allow product to enter sewer or waterways.
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:

Prevent contact with eyes, skin and clothing. Do not breathe 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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Ethylene Copolymer Rubber	None	None	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 TWA	None	None
Hydroquinone	1 mg/m3 TWA (Sensitiser.)	2 mg/m3 TWA	None	None
Engineering controls:		own-draft exhaust ven oor concentration belo		
Respiratory protection:	controlled by v cartridge can b be monitored fi filter will becom	es where exposure to entilation a NIOSH ap be used. When such a requently as the cyano he blocked. For that re ilation is in place so a	proved respirator with respirator is used car pacrylate vapor will po eason we strongly rec	an organic vapor tridge function must lymerize and the ommend that
Eye/face protection:	Safety goggles	or safety glasses with	n side shields.	
Skin protection:	Use nitrile glov PVC, nylon or	es and aprons as nec cotton.	essary to prevent con	tact. Do not use

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Black
Odor:	Irritating
Odor threshold:	1 - 2 ppm
pH:	Not applicable
Vapor pressure:	< 0.2 mm hg (77 °F (25°C))
Boiling point/range:	> 300 °F (> 148.9 °C)
Melting point/ range:	Not determined
Specific gravity:	1.1
Vapor density:	3 Approximately
Flash point:	80 - 93.3 °C (176°F - 199.94 °F)
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	485 °C (905°F)
Evaporation rate:	Not available.
Solubility in water:	Polymerises in presence of water.
Partition coefficient (n-octanol/water):	Not applicable
VOC content:	< 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

10. STABILITY AND REACTIVITY		
Stability:	Stable under recommended storage conditions.	
Hazardous reactions:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.	
Hazardous decomposition products:	None	
Incompatible materials:	Water, amines, alkalis and alcohols.	
Conditions to avoid:	Spontaneous polymerization.	
11. TOXICOLOGICAL INFORMATION		
Acute oral product toxicity:	LD50 (rat) > 5,000 mg/kg	

Acute dermal product toxicity:

LD50 (rabbit) > 2,000 mg/kg

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Ethylene Copolymer Rubber	No	No	No
Carbon black	No	Group 2B	No
Hydroquinone	No	No	No

Hazardous components	Health Effects/Target Organs
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory
Ethylene Copolymer Rubber	No Records
Carbon black	Respiratory, Some evidence of carcinogenicity
Hydroquinone	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Immune system, Irritant, Liver, Mutagen, Skin, Thyroid

12. ECOLOGICAL INFORMATION

Ecological information:

Not known.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name: Hazard class or division:

Combustible liquid, n.o.s. (Cyanoacrylate ester) Combustible Liquid NA 1993 Ш

International Air Transportation (ICAO/IATA)

Proper shipping name: Hazard class or division: Identification number: Packing group: Exceptions:

Identification number:

Packing group:

Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) 9 UN 3334 Ш Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

Hazard class or division: Identification number: Packing group:	None None None
	15. REGULATORY INFORMATION
Jnited States Regulatory Information	
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act
TSCA 12(b) Export Notification:	Inventory. None above reporting de minimus
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	Hydroquinone (CAS# 123-31-9). Immediate Health, Delayed Health, Fire, Reactive None above reporting de minimis
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present. This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class:	B.3, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

Water Transportation (IMO/IMDG)

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