# Safety Data Sheet



Revision Number: 003.0

Issue date: 09/03/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

**IDH number:** 

Product name:

Product type: **Restriction of Use:** Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE 455 INSTANT ADHESIVE known as 455 Prism® Low Odor/Low Bloom Cyanoacrylate None identified

Item number: 17421 Region: **United States Contact information:** Telephone: +1 (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

135258

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW WARNING: BONDS SKIN IN SECONDS. COMBUSTIBLE LIQUID. CAUSES EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY		
FLAMMABLE LIQUID	4		
EYE IRRITATION 2B			
PICTOGRAM(S)			

None

#### **Precautionary Statements**

Prevention:	Keep away from heat, sparks, open flames, hot surfaces - no smoking. Wash thoroughly after
Response:	handling. Wear protective gloves, eye protection, and face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If eye irritation persists: Get medical attention. In case of
Storage: Disposal:	fire: Use foam, dry chemical or carbon dioxide to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
Beta-Methoxyethyl Cyanoacrylate	27816-23-5	60 - 100	
Filler	Proprietary	1 - 5	
Thickener	Proprietary	1 - 5	
Thermal additive	Proprietary	1 - 5	

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

	4. FIRST AID MEASURES
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
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 her 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 o 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.
Symptoms:	See Section 11.
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 first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.
Ę	5. FIRE FIGHTING MEASURES
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
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:	None
Hazardous combustion products:	Trace amounts of toxic and/or irritating fumes may be released and the use 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. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## 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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Beta-Methoxyethyl Cyanoacrylate	None	None	None	0.2 ppm TWA
Filler	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Thickener	None	None	None	None
Thermal additive	None	None	None	None

**Engineering controls:** 

**Respiratory protection:** 

Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

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

be used if the potential for splashing or spraying of product exists.

Eye/face protection:

Skin protection:

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

Safety goggles or safety glasses with side shields. Full face protection should

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: . Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: **Evaporation rate:** Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

Liauid. Gel Cloudy, Light yellow Negligible 1 - 2 ppm Not applicable < 0.2 mm hg > 149 °C (> 300.2 °F) Not determined 1.1 Not available. 80 °C (176°F) Tagliabue closed cup Not determined Not determined Not determined Not available. Polymerises in presence of water. Not applicable < 2 %; < 20 g/l California SCAQMD Method 316B Not available. Not available.

IDH number: 135258

# **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:	Oxides of carbon.
Incompatible materials:	Water, amines, alkalis and alcohols.
Reactivity:	Not available.
Conditions to avoid:	Spontaneous polymerization.
11. TOXICOLOGICAL INFORMATION	

Relevant routes of exposure: Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation. 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:	May cause skin irritation. Bonds skin in seconds. 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 hazard even if bonded to the skin.
Eye contact:	Irritating to eyes. Causes excessive tearing. Eyelids may bond.
Ingestion:	Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Beta-Methoxyethyl Cyanoacrylate	None	Irritant, Allergen
Filler	None	Irritant
Thickener	None	Irritant
Thermal additive	None	No Records

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Beta-Methoxyethyl Cyanoacrylate	No	No	No
Filler	No	No	No
Thickener	No	No	No
Thermal additive	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

1	3. DISPOSAL CONSIDERATIONS		
In	Information provided is for unused product only.		
Recommended method of disposal:	Follow all local, state, federal and provincial regulations for disposal.		
Hazardous waste number:	Not a RCRA hazardous waste.		
	14. TRANSPORT INFORMATION		
The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.			
U.S. Department of Transportation G	round (49 CFR)		
Proper shipping name:	Combustible liquid, n.o.s. (Cyanoacrylate ester)		
Hazard class or division:	Combustible Liquid		
Identification number:	NA 1993		
Packing group:	III		
International Air Transportation (ICAO/IATA)			
Proper shipping name:	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)		
Hazard class or division:	9		
Identification number:	UN 3334		
Packing group:	III		
Exceptions:	Not more than 500 ml (each inner package) - Unrestricted		
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group:	Not regulated None None 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 above reporting de minimis		
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis Immediate Health, Delayed Health, 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). Beta-Methoxyethyl Cyanoacrylate (CAS# 27816-23-5).		
California Proposition 65:	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.		

**Canada Regulatory Information** 

CEPA DSL/NDSL Status:

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

## **16. OTHER INFORMATION**

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

#### Prepared by: Catherine Bimler, Regulatory Affairs Specialist

Issue date: 09/03/2014

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