



Revision Date: 03/06/2006

Issue date: 03/07/2006

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** DURABOND EPOXY ADHESIVE E-00CL 200 ML. **Item No. :** 29290\_HARDENER  
**Product type:** Epoxy Hardener **Region:** United States  
**Company address:** **Contact Information:**  
Henkel Corporation Telephone: 860.571.5100  
1001 Trout Brook Crossing Emergency telephone: 860.571.5100  
Rocky Hill, Connecticut 06067 Internet: www.loctite.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Polymercaptan hardener Proprietary	60-100	None	None	None
Tertiary amine Proprietary	5-10	None	None	None
Aliphatic amine Proprietary	1-5	3 ppm TWA 6 ppm STEL	3 ppm TWA 6 mg/m <sup>3</sup> TWA	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### HMIS:

<b>Physical state:</b> Liquid	<b>HEALTH:</b>	3*
<b>Color:</b> Light cream	<b>FLAMMABILITY:</b>	1
<b>Odor:</b> Mercaptan	<b>PHYSICAL HAZARD:</b>	0
	<b>Personal Protection:</b>	See Section 8

**DANGER:** CAUSES EYE AND SKIN BURNS.  
MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF SWALLOWED.

**Relevant routes of exposure:** Eye contact, Ingestion, Inhalation, Skin contact

### Potential Health Effects

**Inhalation:** Allergic respiratory reaction. Severe respiratory tract irritation. May cause irritation to nose and throat. Tearing.  
**Skin contact:** May cause skin burns. Allergic skin reaction. Rash. Redness.  
**Eye contact:** Burns. Severe eye irritation. Redness. Tissue damage.  
**Ingestion:** May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

**Existing conditions aggravated by exposure:** Skin disorders. Skin allergies. Respiratory disorders. Eye disorders.

See Section 11 for additional toxicological information.

Item No. : 29290\_HARDENER

Product name: DURABOND EPOXY ADHESIVE E-00CL 200 ML.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get medical attention immediately.
<b>Notes to physician:</b>	None.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	75.5°C (168°F)	Pensky Martens closed cup
<b>Autoignition temperature:</b>	Not available	
<b>Flammable/Explosive limits-lower %:</b>	Not available	
<b>Flammable/Explosive limits-upper %:</b>	Not available	
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.	
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.	
<b>Unusual fire or explosion hazards:</b>	In the event of fire, cool tanks with water spray.	
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of nitrogen. Ammonia. Nitric acid. Irritating organic fragments.	

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	Remove all ignition sources. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep away from heat, spark and flame. Do not breathe mist or vapors. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage:</b>	Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<b>Incompatible products:</b>	Refer to Section 10.

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

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.
<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Item No. : 29290\_HARDENER

Product name: DURABOND EPOXY ADHESIVE E-00CL 200 ML.

**Skin protection:** Chemical resistant, impermeable gloves. Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

**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:** Liquid  
**Color:** Light cream  
**Odor:** Mercaptan  
**Vapor pressure:** Not available  
**pH:** Not applicable  
**Boiling point/range:** Not determined  
**Melting point/range:** Not available  
**Specific gravity:** 0.98  
**Vapor density:** Not determined  
**Evaporation rate:** Not available  
**Solubility in water:** Not determined  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** <1%; <10 grams/liter (estimated)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Hazardous polymerization:** Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

**Hazardous decomposition products:** None

**Incompatibility:** Strong acids. Strong bases. Peroxides. Calcium hypochlorite. Sodium hypochlorite.

**Conditions to avoid:** Excessive heat. Storage with incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Polymercaptan hardener Proprietary	No	No	No
Tertiary amine Proprietary	No	No	No
Aliphatic amine Proprietary	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Polymercaptan hardener Proprietary	No data
Tertiary amine Proprietary	Irritant
Aliphatic amine Proprietary	Irritant, Kidney, Liver

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose according to EPA and local governmental regulations.

**EPA hazardous waste number:** This product may contain traces of benzene and may be classified as a hazardous waste (waste number(s) D018) under EPA RCRA (40 CFR 261.24). However this product is only classifiable as hazardous waste if it exhibits the characteristics of toxicity as shown by the toxicity characteristic leaching procedure (TCLP). Under RCRA, it is the responsibility of the end user of this product to determine whether it meets this criteria at the time of disposal.

## 14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

**Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. ( Aliphatic amines )  
**Hazard class or division:** 8  
**Identification number:** UN 2735  
**Packing group:** III  
**Exceptions:** Consumer Commodity ORM-D (Not more than 4L)

### International Air Transportation (ICAO/IATA):

**Proper shipping name:** Amines, Liquid, Corrosive, n.o.s. ( Aliphatic amines )  
**Hazard class or division:** 8  
**Identification number:** UN2735  
**Packing group:** III

### Water Transportation (IMO/IMDG):

**Proper shipping name:** Amines, liquid, corrosive, n.o.s. ( Aliphatic amines )  
**Hazard class or division:** 8  
**Identification number:** UN2735  
**Packing group:** III  
**Marine pollutant:** None known

## 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 302 EHS:** None above reporting de minimus.  
**CERCLA/SARA Section 311/312:** Immediate Health Hazard  
**CERCLA/SARA 313:** None above reporting de minimus.

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### Canada Regulatory Information

**CEPA DSL/NDSL Status:** One or more components are not listed on or exempt from listing on the Canadian Domestic Substances List or have not been fully investigated. Contains one or more components listed on the Non-Domestic Substances list.

**WHMIS hazard class:** E, D.2.B

Item No. : 29290\_HARDENER

Product name: DURABOND EPOXY ADHESIVE E-00CL 200 ML.

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Revised to new format.

Prepared by: Anna Orlovsky, Product Safety and Regulatory Affairs Specialist

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.



Revision Date: 03/06/2006

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** DURABOND EPOXY ADHESIVE E-00CL 200 ML. **Item No. :** 29290\_RESIN  
**Product type:** Epoxy Resin **Region:** United States  
**Company address:** **Contact Information:**  
Henkel Corporation Telephone: 860.571.5100  
1001 Trout Brook Crossing Emergency telephone: 860.571.5100  
Rocky Hill, Connecticut 06067 Internet: www.loctite.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Epoxy resin	60-100	None	None	None
Proprietary				

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

HMS:

<b>Physical state:</b> Liquid	<b>HEALTH:</b>	2
<b>Color:</b> Clear Yellow	<b>FLAMMABILITY:</b>	1
<b>Odor:</b> Epoxy	<b>PHYSICAL HAZARD:</b>	1
	<b>Personal Protection:</b>	See Section 8

**WARNING:** MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE EYE AND SKIN IRRITATION.

**Relevant routes of exposure:** Eye contact, Ingestion, Inhalation, Skin contact

#### Potential Health Effects

<b>Inhalation:</b>	May cause irritation to nose and throat.
<b>Skin contact:</b>	Allergic skin reaction. Moderate skin irritation. Itching. Redness.
<b>Eye contact:</b>	Moderate eye irritation. Redness.
<b>Ingestion:</b>	Not expected under normal conditions of use.

**Existing conditions aggravated by exposure:** Skin disorders. Skin allergies.

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get medical attention if symptoms develop and persist.
<b>Notes to physician:</b>	None.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	Greater than 93°C (200°F) Pinsky Martens closed cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits-lower %:</b>	Not available
<b>Flammable/Explosive limits-upper %:</b>	Not available
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	In the event of fire, cool tanks with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. May decompose above 149°C (300°F). May polymerize above 260°C (500°F) in which case closed containers may rupture or explode. Fumes and vapors from thermal decompositions vary in composition and toxicity.
<b>Hazardous combustion products:</b>	Oxides of carbon. Irritating organic fragments. Acids. Aldehydes.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	Remove all ignition sources. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Storage:</b>	Store in original container until ready to use. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<b>Incompatible products:</b>	Refer to Section 10.

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

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Item No. : 29290\_RESIN

Product name: DURABOND EPOXY ADHESIVE E-00CL 200 ML.

**Skin protection:** Chemical resistant, impermeable gloves.

**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:** Liquid  
**Color:** Clear Yellow  
**Odor:** Epoxy  
**Vapor pressure:** Not available  
**pH:** Not applicable  
**Boiling point/range:** Greater than 149°C (300°F)  
**Melting point/range:** Not available  
**Specific gravity:** 1.15  
**Vapor density:** Not available  
**Evaporation rate:** Not available  
**Solubility in water:** Negligible.  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** <1%; <10 grams/liter (estimated)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Hazardous polymerization:** Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

**Hazardous decomposition products:** None

**Incompatibility:** Strong oxidizers. Strong acids. Strong bases. Amines.

**Conditions to avoid:** Do not expose to temperatures above 149°C (300°F). Storage with incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epoxy resin Proprietary	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Epoxy resin Proprietary	Allergen, Irritant

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose according to EPA and local governmental regulations.

**EPA hazardous waste number:** Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None  
**Marine pollutant:** None known

### 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 302 EHS:** None above reporting de minimus.  
**CERCLA/SARA Section 311/312:** Immediate Health Hazard  
**CERCLA/SARA 313:** None above reporting de minimus.

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**Canada Regulatory Information**

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

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Revised to new format.

Prepared by: Gary Pierson, Sr. Product Safety and Regulatory Affairs Specialist

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.