

Revision Number: 006.0

#### **PRODUCT AND COMPANY IDENTIFICATION** 1.

Product name:

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

LOCTITE EA E-60NC KNOWN AS DB **EPOXY Pot CMPD E-60NC** Epoxy resin None identified

**IDH number:** Item number: **Region:** 

29325\_209536 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

701991

1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
WARNING:	CAUSES SKIN IRRITATION.	
	MAY CAUSE AN ALLERGIC SKIN REACTION.	
	CAUSES SERIOUS EYE IRRITATION.	

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

	PICTOGRAM(S)
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**Precautionary Statements** 

Prevention:	Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling.
	Contaminated work clothing should not be allowed out of the workplace. Wear protective
	gloves, eye protection, and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or
	rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
Storage:	Not prescribed
Disposal:	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.

Hazardous Component(s)	CAS Number	Percentage*
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	30 - 60
Phenol polymer with formaldehyde, glycidyl ether	28064-14-4	30 - 60

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

\* Exact percentages may vary or are 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:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes befor reuse.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. If symptoms develop and persist, get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If symptoms develor and persist, get medical attention.
Symptoms:	See Section 11.
5. F	IRE FIGHTING MEASURES
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	In case of fire, keep containers cool with water spray. Closed containers ma 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.
Hazardous combustion products:	Oxides of carbon. Aldehydes. Phenolics. Toxic fumes. Irritating vapors.
6. ACCII	DENTAL RELEASE MEASURES
personal protection recommended in Section of the s	on 8, isolate the hazard area and deny entry to unnecessary and
Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Ensure adequate ventilation. Wear appropriate personal protective equipmen Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean u Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

## 7. HANDLING AND STORAGE

Handling:Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.<br/>Wash thoroughly after handling. Use only with adequate ventilation. Keep<br/>container closed.Storage:For safe storage, store at or below 149 °C (300.2 °F)<br/>Store in original container until ready to use. Keep container tightly closed and<br/>in a cool, well-ventilated place away from incompatible materials. Keep away<br/>from heat, spark and flame. Protect from direct sunlight.

## 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
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Phenol polymer with formaldehyde, glycidyl ether	None	None	None	None

Engineering controls:

Use local exhaust ventilation if the potential for airborne exposure exists.

Respiratory protection:

Use a NIOSH approved respirator if ventilation is inadequate.

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection:

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

## 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: Flammability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

Liquid Black Epoxy Not available. Not available. Not available. > 149 °C (> 300.2 °F) Not available. 1.1 - 1.8 Not available. > 93 °C (> 199.4 °F) Setaflash Closed Cup Not available. Not available. Not available. Not applicable Not available. Negligible Not available. < 1 %; < 10 g/l Estimated Not available. Not available.

## **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions of storage and use.	
Hazardous reactions:	Polymerization may occur at elevated temperature or in the presence of incompatible materials.	
Hazardous decomposition products:	Oxides of carbon. Aldehydes. Phenolics. Toxic fumes. Irritating vapors.	
Incompatible materials:	Oxidizing agents. Acids. Bases. Amines.	
Reactivity:	Not available.	
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Avoid temperatures above 149°C (300°F). Protect from direct sunlight. Note: Heating the epoxy resin in this product above 148.9 °C (300 °F) in the presence of air may cause slow oxidative decomposition. Above 260 °C (500 °F) polymerization of the epoxy resin may occur. Aliphatic polyamines can produce exothermic reactions with epoxy resins which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Do not breathe fumes.	

Take measures to prevent the build-up of electrostatic charges.

## **11. TOXICOLOGICAL INFORMATION**

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact:	Causes serious eye irritation.
Ingestion:	Not expected under normal conditions of use.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	Allergen, Irritant
Phenol polymer with formaldehyde, glycidyl ether	None	Allergen, Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Phenol polymer with formaldehyde, glycidyl ether	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** 

Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

# 14. TRANSPORT INFORMATION

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

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 Ground (49 CFR)

Proper shipping name: Hazard class or division: Identification number: Packing group:	Not regulated None None None
International Air Transportation (ICAO/IATA)	
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)
Hazard class or division:	9
Identification number:	UN 3082
Packing group:	III
Water Transportation (IMO/IMDG)	
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)
Hazard class or division:	9
Identification number:	UN 3082
Packing group:	
Marine pollutant:	Bisphenol-A Epichlorhydrin resin

## **15. REGULATORY INFORMATION**

#### United States Regulatory Information

	16. OTHER INFORMATION
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Canada Regulatory Information	
California Proposition 65:	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.
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health None above reporting de minimis.
TSCA 12 (b) Export Notification:	None above reporting de minimis
TSCA 8 (b) Inventory Status:	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

This safety data sheet contains changes from the previous version in sections: 3,7,8,9,11,13,15

Prepared by: Product Safety and Regulatory Affairs

Issue date: 01/05/2021

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## Safety Data Sheet



Revision Number: 008.0

Issue date: 05/14/2019

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name:

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

LOCTITE EA E-60NC KNOWN AS DB **EPOXY Pot CMPD E-60NC** Epoxy Hardener None identified

**IDH number:** 

701992

Item number: 29325 209537 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

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
DANGER:	HARMFUL IF SWALLOWED.	
	TOXIC IN CONTACT WITH SKIN.	
	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.	
	MAY CAUSE AN ALLERGIC SKIN REACTION.	
	FATAL IF INHALED.	
	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR	
	REPEATED EXPOSURE.	

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	2
ACUTE TOXICITY DERMAL	3
SKIN CORROSION	1A
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2



#### **Precautionary Statements**

Prevention:

Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. [In case of inadequate ventilation] wear respiratory protection.

Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal:	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*
4-Nonylphenol, branched	84852-15-3	50 - 60
2,2'-Dimethyl-4,4'- methylenebis(cyclohexylamine)	6864-37-5	30 - 40
Benzyl alcohol	100-51-6	5 - 10
N-(3- (Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1 - 1

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES			
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.		
Eye contact:	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.		
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.		
Symptoms:	See Section 11.		
5. FIR	RE FIGHTING MEASURES		
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.		
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.		
Unusual fire or explosion hazards:	Burning produces obnoxious and toxic fumes. Personnel in vicinity and downwind should be evacuated. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses.		

#### Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. Acids. Aldehydes. Ammonia. Ketones. Nitric acid. Toxic fumes. Irritating vapors.

### 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:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

## 7. HANDLING AND STORAGE

Handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Use only with adequate ventilation. Keep container closed.

Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame.

## 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
4-Nonylphenol, branched	None	None	None	None
2,2'-Dimethyl-4,4'- methylenebis(cyclohexylamine)	None	None	None	None
Benzyl alcohol	None	None	10 ppm (44.20 mg/m3) TWA	None
N-(3- (Trimethoxysilyl)propyl)ethylenediamine	None	None	None	None

Engineering controls:

Respiratory protection:

Eye/face protection:

Skin protection:

Use local 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).

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Vapor density: Flash point: Liquid Pale yellow Mild Not available. Not available. Not available. Not available. Not available. Not available. > 93 °C (> 199.4 °F) Setaflash Closed Cup

IDH number: 701992

Product name: LOCTITE EA E-60NC KNOWN AS DB EPOXY Pot CMPD E-60NC Page 3 of 6 Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Flammability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature: Not available. Not available. Not available. Not applicable Not available. Not available. < 1 %; < 10 g/l Estimated Not available. Not available. Not available.

## **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions of storage and use.		
Hazardous reactions:	None under normal processing.		
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Acids. Aldehydes. Ammonia. Ketones. Nitric acid. Toxic fumes. Irritating vapors.		
Incompatible materials:	Organic acids. Mineral acids. Oxidizing agents. Peroxides. Sodium hypochlorite. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces.		
Reactivity:	Not available.		
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.		

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

#### Potential Health Effects/Symptoms

Inhalation:	Mists, vapors or liquid may cause severe irritation or burns. May be harmful or fatal if inhaled.
Skin contact:	Causes skin burns. May cause allergic skin reaction. Toxic in contact with skin.
Eye contact:	Causes serious eye damage.
Ingestion:	May cause burns of mouth, throat and stomach with abdominal and chest pain, nausea,
-	vomiting, diarrhea, thirst, weakness and collapse. Harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
4-Nonylphenol, branched	None	Irritant, Corrosive	
2,2'-Dimethyl-4,4'- methylenebis(cyclohexylamine)	None	Brain, Corrosive, Irritant, Liver, Lung, Muscle, Skin	
Benzyl alcohol	Oral LD50 (Rabbit) = 1,940 mg/kg Oral LD50 (Rat) = 1,230 - 3,100 mg/kg Oral LD50 (Mouse) = 1,580 mg/kg Oral LD50 (Rat) = 3,100 mg/kg Dermal LD50 (Rabbit) = 2,000 mg/kg	Allergen, Central nervous system, Corrosive, Irritant	
N-(3- (Trimethoxysilyl)propyl)ethylenediamine	None	Irritant, Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
4-Nonylphenol, branched	No	No	No
2,2'-Dimethyl-4,4'- methylenebis(cyclohexylamine)	No	No	No
Benzyl alcohol	No	No	No
N-(3- (Trimethoxysilyl)propyl)ethylenediamine	No	No	No

## 12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

### **13. DISPOSAL CONSIDERATIONS**

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 Ground (49 CFR) Proper shipping name: Corrosive liquids, toxic, n.o.s. (cycloaliphatic amine, Nonylphenol) Hazard class or division: 8 (6.1) Identification number: UN 2922 Packing group: Ш Marine pollutant: Nonylphenol International Air Transportation (ICAO/IATA) Proper shipping name: Corrosive liquid, toxic, n.o.s. (cycloaliphatic amine, Nonylphenol) Hazard class or division: 8 (6.1) Identification number: UN 2922 Packing group: Ш Water Transportation (IMO/IMDG) Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (cycloaliphatic amine, Nonylphenol) Hazard class or division: 8 (6.1) UN 2922 Identification number: Packing group: Ш Marine pollutant: Nonylphenol

### **15. REGULATORY INFORMATION**

**United States Regulatory Information** 

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Canada Regulatory Information	
California Proposition 65:	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health, Delayed Health 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). 4-Nonylphenol, branched (CAS# 84852-15-3).
TSCA 12 (b) Export Notification:	Alkyl phenol (CAS# 84852-15-3).
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

### **16. OTHER INFORMATION**

This safety data sheet contains changes from the previous version in sections: 14

#### Prepared by: Product Safety and Regulatory Affairs

Issue date: 05/14/2019

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