# **Safety Data Sheet**



Revision Number: 005.0 Issue date: 08/21/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:LOCTITE EA E-60NC AIDH number:701993Product type:Epoxy resinItem number:29326\_209536Restriction of Use:None identifiedRegion:United States

Company address: Henkel Corporation One Henkel Wav

Rocky Hill, Connecticut 06067

Contact information: Telephone: (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711

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

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)



#### **Precautionary Statements**

Prevention: Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

Response: IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to remove. 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.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*

Epoxy resin	Proprietary	30 - 60
Epoxy resin	Proprietary	30 - 60
Pigment	Proprietary	0.1 - 1

<sup>\*</sup> 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:** 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 before

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 develop

and persist, get medical attention.

Symptoms: See Section 11.

## 5. FIRE 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 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.

**Hazardous combustion products:** Oxides of carbon. Aldehydes. Phenolics. 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.

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### 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Use only with adequate ventilation. Keep

container closed.

**Storage:** For safe storage, store at or below 149 °C (300.2 °F)

Store in original container until ready to use. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away

from heat, spark and flame. Protect from direct sunlight.

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
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Piament	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:LiquidColor:BlackOdor:EpoxyOdor threshold:Not available.pH:Not available.Vapor pressure:Not available.Boiling point/range:> 149 °C (> 300.2 °F)

Melting point/ range:

Vapor density:

Not available.

Not available.

Flash point: > 93 °C (> 199.4 °F) Setaflash Closed Cup

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
Not available.
Not available.
Negligible
Not available.

**VOC content:** < 1 %; < 10 g/l Estimated

Viscosity: Not available.

Decomposition temperature: 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

#### 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
Epoxy resin	None	Allergen, Irritant
Epoxy resin	None	Allergen, Irritant
Pigment	None	Allergen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Pigment	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: Not regulated

Hazard class or division:
Identification number:
Packing group:
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: III

Marine pollutant: Bisphenol-A Epichlorhydrin resin

### 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: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health

CERCLA/SARA Section 313: None above reporting de minimis

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.

**Canada Regulatory Information** 

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

### 16. OTHER INFORMATION

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

Prepared by: Rena Petrides, Regulatory Affairs Specialist

Issue date: 08/21/2014

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# **Safety Data Sheet**



Revision Number: 006.1 Issue date: 04/12/2016

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:LOCTITE EA E-60NC BIDH number:701994Product type:Epoxy HardenerItem number:29326\_209537Restriction of Use:None identifiedRegion:United States

Company address: Henkel Corporation One Henkel Way

One Henkel Way
Rocky Hill. Connecticut 06067

address: Contact information:
poration Telephone: (860) 571-5100
HWay 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.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY INHALATION	1
ACUTE TOXICITY DERMAL	3
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1





#### **Precautionary Statements**

**Prevention:** Do not breathe vapors, mist, or spray. Wash 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, eye

protection, and face protection. [In case of inadequate ventilation] wear respiratory protection.

Response: If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing

before reuse

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	30 - 60
2,2'-Dimethyl-4,4'- methylenebis(cyclohexylamine)	6864-37-5	30 - 60
Benzyl alcohol	100-51-6	5 - 10
Silane derivative	Proprietary	0.1 - 1

<sup>\*</sup> 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 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. FIRE 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 ven

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
Silane derivative	None	None	None	None

Engineering controls: Use local 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).

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: Liquid
Color: Pale yellow
Odor: mild

Odor threshold:Not available.pH:Not available.Vapor pressure:Not available.Boiling point/range:Not available.Melting point/ range:Not available.Vapor density:Not available.

Flash point: > 93 °C (> 199.4 °F) Setaflash Closed Cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Flammability:

Flammability:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available.

Not available.

Not available.

VOC content: < 1 %; < 10 g/l Estimated

Viscosity: Not available.

Decomposition temperature: 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
Silane derivative	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
Silane derivative	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:** It is the responsibility of the user to determine if an item is hazardous as

defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics

Leaching Procedure (TCLP) 40 CFR 261.20-24.

### 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, n.o.s. (cycloaliphatic amine, Nonylphenol)

Hazard class or division:

Identification number:

Packing group:

Warine pollutant:

UN 1760

III

Nonylphenol

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive liquid, n.o.s. (cycloaliphatic amine, Nonylphenol)

Hazard class or division: 8
Identification number: UN 1760
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE LIQUID, N.O.S. (cycloaliphatic amine, Nonylphenol)

Hazard class or division:

Identification number:

Packing group:

Marine pollutant:

8

UN 1760

III

Nonylphenol

### 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: Alkyl phenol (CAS# 84852-15-3).

CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA Section 313: This product contains the following

CERCLA/SARA Section 313: 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).

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: All components are listed on or are exempt from listing on the Domestic Substances List.

#### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 15

Prepared by: Rena Petrides, Regulatory Affairs Specialist

**Issue date:** 04/12/2016

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