Material Safety Data Sheet



Revision Number: 004.0 Issue date: 02/01/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DB EPOXY Pot CMPD E-60NC 50ML IDH number:

Product type: Epoxy Hardener Item number: 29324_209537 Region: United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 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

701990

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

 HMIS:

 Liquid
 HEALTH:
 *3

 Pale yellow
 FLAMMABILITY:
 1

 Color:
 Pale yellow
 FLAMMABILITY:
 1

 Odor:
 Mild
 PHYSICAL HAZARD:
 0

Personal Protection: See MSDS Section 8

DANGER: CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.

MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF SWALLOWED OR INHALED.

MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Physical state:

Inhalation: Can cause severe irritation and burns to the respiratory tract. Harmful if inhaled. May cause

delayed lung injury.

Skin contact: Causes skin burns. May cause allergic skin reaction. May be harmful if absorbed through skin.

Eye contact: Causes eye burns. Burns of the eye may cause blindness.

Ingestion: May cause burns of mouth, throat and stomach with abdominal and chest pain, nausea,

vomiting, diarrhea, thirst, weakness and collapse. Harmful if swallowed. Aspiration may occur

during swallowing or vomiting, resulting in lung damage.

Existing conditions aggravated by

exposure:

Eye, skin and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
4-Nonylphenol, branched	84852-15-3	30 - 60
Cycloaliphatic amine	Proprietary	30 - 60
Alcohol derivative	Proprietary	5 - 10

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.

5. FIRE FIGHTING MEASURES

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

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available.

Flammable/Explosive limits - upper:

Not available.

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: Remove all sources of ignition. 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. Do not store in reactive metal containers.

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
4-Nonylphenol, branched	None	None	None	None
Cycloaliphatic amine	None	None	None	None
Alcohol derivative	None	None	10 ppm (44 mg/m3) TWA	None

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

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. Butyl rubber gloves. Nitrile gloves.

Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Pale yellow Color: Mild Odor: Odor threshold: Not available. Not available. pH: Not available. Vapor pressure: 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:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
Not available.
Not available.
Not available.

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

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.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
4-Nonylphenol, branched	No	No	No
Cycloaliphatic amine	No	No	No
Alcohol derivative	No	No	No

Hazardous components	Health Effects/Target Organs	
4-Nonylphenol, branched	Irritant, Corrosive	
Cycloaliphatic amine	Brain, Corrosive, Irritant, Liver, Lung, Muscle, Skin	
Alcohol derivative	Allergen, Central nervous system, Corrosive, Irritant	

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

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

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

Hazard class or division: Identification number: UN 1760

Packing group: Ш

Marine pollutant: Nonylphenol

International Air Transportation (ICAO/IATA)

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

Hazard class or division: Identification number: UN 1760

Packing group: Ш

Water Transportation (IMO/IMDG)

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

Hazard class or division:

Identification number: UN 1760 Packing group: Ш Marine pollutant: 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: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus CERCLA/SARA Section 311/312: Immediate Health, Delayed Health CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

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

Substances List. WHMIS hazard class: D.2.A, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1,2,4,5,6,7,8,10

Prepared by: Rena Petrides, Regulatory Affairs Specialist

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Material Safety Data Sheet



Revision Number: 004.0 Issue date: 02/01/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DB EPOXY Pot CMPD E-60NC 50 ML

Product type: Epoxy resin

 IDH number:
 701989

 Item number:
 29324_209536

 Region:
 United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 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

HMIS:

 Physical state:
 Liquid
 HEALTH:
 2

 Color:
 Black
 FLAMMABILITY:
 1

 Odor:
 Epoxy
 PHYSICAL HAZARD:
 1

Personal Protection: See MSDS Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation.

Skin contact: May cause allergic skin reaction. May cause skin irritation.

Eye contact: This product may cause irritation to the eyes. **Ingestion:** Not expected under normal conditions of use.

Existing conditions aggravated by

exposure:

Skin disorders. Skin allergies.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	30 - 60
Phenol polymer with formaldehyde, glycidyl ether	28064-14-4	30 - 60
Styrene polymer	Unknown	1 - 5

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.

5. FIRE FIGHTING MEASURES

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

Autoignition temperature:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Not available.

Not available.

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: Remove all sources of ignition. Ensure adequate ventilation. Wear appropriate

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. Use only with adequate ventilation. Keep

container closed.

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

IDH number: 701989

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.

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
Epichlorohydrin-4,4'-isopropylidene diphenol resin	None	None	None	None
Phenol polymer with formaldehyde, glycidyl ether	None	None	None	None
Styrene polymer	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 glasses with sideshields or chemical safety goggles should be worn if

there is a risk of splashing.

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: Black
Odor: Epoxy

 Odor threshold:
 Not available.

 pH:
 Not available.

 Vapor pressure:
 Not available.

 Boiling point/range:
 > 149 °C (> 300.2 °F)

 Not available.
 Not available.

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

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

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.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. Avoid

temperatures above 149°C (300°F). 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

Hazardous components	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
Styrene polymer	No	No	No

Hazardous components	Health Effects/Target Organs
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant
Phenol polymer with formaldehyde, glycidyl ether	Irritant, Allergen
Styrene polymer	No Data

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

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: 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 minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health

CERCLA/SARA 313: None above reporting de minimus

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.

WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1,2,3,4,5,6,7,8,10,14

Prepared by: Rena Petrides, Regulatory Affairs Specialist

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