Material Safety Data Sheet





Revision Number: 001.2 Issue date: 02/14/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: EA 9309.3NA PART A 50G E-Z PAK ID

Product type: Molding Compound

Company address: Henkel Corporation 2850 Willow Pass Road Bay Point, California 94565 IDH number: 1043778 Item number: AA9354318 Region: United States

Contact information:

Telephone: 925.458.8000 Fax: 925.458.8030 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

Contains one or more components for which a Toxic Substances Control Act (TSCA) Low Volume Exemption (LVE) applies. See Section 15.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

 Physical state:
 Liquid
 HEALTH:
 *2

 Color:
 Pink
 FLAMMABILITY:
 1

 Odor:
 Epoxy
 PHYSICAL HAZARD:
 0

Personal Protection: See MSDS Section 8

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation.

Skin contact: This product may cause irritation to the skin. May cause allergic skin reaction.

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

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	%	
Epoxy resin	Proprietary	60 - 100	
Epoxy resin	Proprietary	10 - 30	
Modified Epoxy Resin	Unknown	1 - 5	
Modified Epoxy Resin	Unknown	1 - 5	
Glass, oxide, chemicals	65997-17-3	1 - 5	
Treated fumed silica	67762-90-7	1 - 5	
Titanium dioxide	13463-67-7	0.1 - 1	

IDH number: 1043778 Product name: EA 9309.3NA PART A 50G E-Z PAK

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person 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 wash skin thoroughly with soap and water. If symptoms develop

and persist, get medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting. Never give anything

by mouth to a victim who is unconscious or is having convulsions.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash point: 120 °C (248°F)

Autoignition temperature: Not applicable

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 full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons. Oxides of nitrogen.

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: Prevent further leakage or spillage if safe to do so. Wear appropriate

protective equipment and clothing during clean-up. Do not allow product to

enter sewer or waterways.

Clean-up methods: Scrape up spilled material and place in a closed container for disposal.

Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Avoid breathing vapors or mists of this product. Do not take internally.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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.

IDH number: 1043778 Product name: EA 9309.3NA PART A 50G E-Z PAK

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Epoxy resin	None	None	None	None
Epoxy resin	None	None	None	None
Modified Epoxy Resin	None	None	None	None
Modified Epoxy Resin	None	None	None	None
Glass, oxide, chemicals	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	None	None	None
Treated fumed silica	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
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and

prevent buildup of any vapors or mists generated from the handling of this

product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or

vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Wear impervious gloves for prolonged contact. Use of impervious apron and

boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid Physical state: Color: Pink Odor: Ероху Not available Odor threshold: Not applicable pH: Vapor pressure: Not applicable Boiling point/range: Not applicable Melting point/ range: Specific gravity: Not available 1.54

Vapor density:

Flash point:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Not applicable

Not applicable

Not applicable

Solubility in water: Negligible
Partition coefficient (n-octanol/water): Not available

VOC content: < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: May occur.

Hazardous decomposition products: Upon decomposition, this product emits carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons. Oxides of nitrogen.

Incompatible materials: This product may react with strong oxidizing agents.

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)
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Modified Epoxy Resin	No	No	No
Modified Epoxy Resin	No	No	No
Glass, oxide, chemicals	No	No	No
Treated fumed silica	No	No	No
Titanium dioxide	No	Group 2B	No

Hazardous components	Health Effects/Target Organs	
Epoxy resin	Allergen, Irritant	
Epoxy resin	Allergen, Irritant	
Modified Epoxy Resin	No Data	
Modified Epoxy Resin	No Data	
Glass, oxide, chemicals	Allergen, Respiratory	
Treated fumed silica	Irritant	
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity	

12. ECOLOGICAL INFORMATION

Ecological information: Toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Material, if discarded, is not expected to be a characteristic hazardous waste

under RCRA.

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

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

Exceptions: Classified per IMDG Amendment 34; Effective Jan 1, 2010.

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components of this product are listed on the U.S. Toxic Substances Control Act (TSCA)

inventory or are exempt from listing because a Low Volume Exemption (LVE) has been

granted in accordance with 40 CFR 723.50.

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: 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: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

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

Prepared by: Mark Mau, Regulatory Affairs Specialist

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Material Safety Data Sheet





Revision Number: 001.1 Issue date: 07/20/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **EA 9309.3NA PART B 50G E-Z PAK** IDH number: Item number: AB9354319 Product type: Adhesive for the Aerospace Industry **United States** Region:

Company address: Contact information:

Telephone: 925.458.8000 Henkel Corporation Fax: 925.458.8030 Emergency telephone: 860.571.5100

2850 Willow Pass Road Bay Point, California 94565 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS: HEALTH: Physical state: *2 Gel FLAMMABILITY: Blue

Color: Odor: Ammoniacal PHYSICAL HAZARD: **Personal Protection:** See MSDS Section 8

DANGER: CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.

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

Potential Health Effects

Inhalation: Respiratory tract burns.

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

Eye contact: Possible burns to eyes. Severe eye irritation.

Ingestion: May be harmful if swallowed. Aspiration may occur during swallowing or vomiting, resulting in

lung damage.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory 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	%	
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	60 - 100	
Substituted Piperazine	Proprietary	10 - 30	
2,2'-Iminodi(ethylamine)	111-40-0	1 - 5	
Silane derivative	Proprietary	1 - 5	
Phenol	108-95-2	0.1 - 1	

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.

IDH number: 1043779 Product name: EA 9309.3NA PART B 50G E-Z PAK 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.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Ingestion: Drink water as a precaution. Never give anything by mouth to an unconscious

person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F); Estimated

Autoignition temperature:

Flammable/Explosive limits - lower:

Not determined

Flammable/Explosive limits - upper:

Not determined

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. Cartridge respirators do not provide adequate protection for fire

fighters or exotherm mitigation.

Unusual fire or explosion hazards: May liberate large quantities of dense, foul-smelling smoke which may contain

unidentified toxic gasses.

Hazardous combustion products: Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

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: Wear suitable protective clothing, gloves and eye/face protection. Soak up

with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: For the Part A plus Part B adhesive mixture, follow curing schedule as

recommended in product literature. Do not heat Part B at temperatures greater than 100 °C (212 °F). This material may self-react at higher temperatures and cause an exotherm. The exotherm has the potential for release of excessive energy and toxic gasses. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut,

grind, weld, or drill on or near this container.

Storage: For safe storage, store between 0 °C (32°F) and 25 °C (77°F)

Keep container closed.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None	None	None	None
Substituted Piperazine	None	None	None	None
2,2'-Iminodi(ethylamine)	1 ppm TWA (SKIN)	None	None	None
Silane derivative	None	None	None	None
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m3) TWA (SKIN)	None	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists.

Eye/face protection: Safety goggles or safety glasses with side shields.

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: Gel Color: Blue Odor: Ammoniacal Odor threshold: Not available Not determined pH: Vapor pressure: Not determined Boiling point/range: Not available Melting point/ range: Not determined

Specific gravity: 1 Vapor density: 8.45

Flash point: > 93 °C (> 199.4 °F); Estimated

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not determined

Negligible

Not determined

VOC content: < 10 g/l per SCAQMD Rule 1124 [EPA Test Method 24/304-91] (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: May occur.

Hazardous decomposition products: Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

Incompatible materials: Keep away from strong oxidizing agents, strong Lewis or mineral acids.

Conditions to avoid: Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use

immediately. Do not heat mixed adhesive unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat

build-up causing an exotherm.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	No	No	No
Substituted Piperazine	No	No	No
2,2'-Iminodi(ethylamine)	No	No	No
Silane derivative	No	No	No
Phenol	No	No	No

Hazardous components	Health Effects/Target Organs			
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	Corrosive			
Substituted Piperazine	Irritant, Corrosive, Allergen			
2,2'-Iminodi(ethylamine)	Allergen, Irritant, Eyes			
Silane derivative	Irritant, Allergen			
Phenol	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Mutagen, Nervous System, Skin, Vascular			

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: Amines, liquid, corrosive, n.o.s. (Diethylene glycol di-(3-aminopropyl) ether,

Substituted piperazine)

Hazard class or division: 8
Identification number: UN 2735
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylene glycol di-(3-aminopropyl) ether,

Substituted piperazine)

Hazard class or division: 8 Identification number: UN 2735

Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylene glycol di-(3-aminopropyl)

ether, Substituted piperazine)

Hazard class or division: 8
Identification number: UN 2735
Packing group: II

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:

CERCLA/SARA Section 311/312:

None above reporting de minimus

Immediate Health, Delayed Health

IDH number: 1043779 Product name: EA 9309.3NA PART B 50G E-Z PAK

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: New Material Safety Data Sheet format

Prepared by: Gary Pierson, Manager, Regulatory Affairs

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IDH number: 1043779 Product name: EA 9309.3NA PART B 50G E-Z PAK