

Safety Data Sheet
Non-GID Maple Epoxy Kit

SDS Revision Date:

02/25/2016



Identification

Product identifier

Product Identity

61-860073-000 Non-GID Maple Epoxy Kit

Alternate Names

Contains: 61-860073-000A1 Lt. Brown Maple Epoxy Resin (7/8 FL OZ), 61-860073-000A Dk. Brown Maple Epoxy Resin (7/8 FL OZ), 61-860073-999B Epoxy Hardner (3/4 FL OZ)

Relevant identified uses of the substance or mixture and uses advised against

Intended use

Restricted to professional users. Epoxy constituents.

Application Method

See Technical Data Sheet.

Details of the supplier of the safety data sheet

Company Name

Brunswick Bowling Products, LLC
525 W. Laketon Ave.
Muskegon, MI 49441 USA

Emergency

24 hour Emergency Telephone No. (ChemTel)

US: 800-255-3924
International: +01-813-248-0585

Customer Service: Brunswick Bowling Products, LLC

231-725-4966

Please see attached Safety Data Sheets for the kit components

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1. Identification

1.1. Product identifier

Product Identity	LIGHT BROWN EPOXY NON-GID REPAIR RESIN BRUNSWICK
Alternate Names	LIGHT BROWN EPOXY NON-GID REPAIR RESIN BRUNSWICK 81-9022 61-860073-000A1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Restricted to professional users. Epoxy constituents.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	Brunswick Bowling Products, LLC 525 W. Laketon Ave. Muskegon, MI 49441 USA
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Emergency

24 hour Emergency Telephone No. (ChemTel)	US: 800-255-3924 International: +01-813-248-0585
Customer Service: Brunswick Bowling & Billiards	231-725-4966

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Aquatic Chronic 2;H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



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H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P313 Get medical advice / attention.
P321 Specific treatment (see information on this label).
P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

[Storage]:

No GHS storage statements

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Diglycidyl ether of bisphenol A CAS Number: 0025068-38-6	50 - 75	Eye Irrit. 2;H319 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411	[1]
EPOXY RESIN LIQUID CAS Number: 0025085-99-8	25 - 50	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Aquatic Chronic 2;H411	[1]

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TRIPROPYLENE GLYCOL DIACRILATE CAS Number: 0042978-66-5	5 - 10	Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411	[1]
Alkyl(C12-C14)glycidyl ether CAS Number: 0068609-97-2	0.10 - 1.0	Skin Irrit. 2;H315 Skin Sens. 1;H317	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

NOTES TO PHYSICIAN: Treat symptomatically. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Treat symptomatically. Effects of contact or inhalation may be delayed. Keep warm and in a quiet place. Additional information is given in the SDS.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Pre-existing medical conditions aggravated by exposure may include disorders of the skin, respiratory and central nervous system.

EFFECTS: May irritate skin and cause redness and pain. Respiratory track irritation. See section 2 for further details.

Eyes

Causes serious eye irritation.

Skin

May cause an allergic skin reaction. Causes skin irritation.

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5. Fire-fighting measures

5.1. Extinguishing media

Water spray. Carbon dioxide. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

PERSONAL PRECAUTIONS: Avoid substance contact. Do not inhale vapors. Ensure fresh air supply in enclosed areas.

PROTECTIVE EQUIPMENT: Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Hazardous decomposition: Hydrogen Sulfide

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Keep away from sources of ignition. Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance. Never use welding or cutting torch on or near container (even empty) because product may ignite explosively.

COMBUSTION PRODUCTS: Vapors heavier than air. Development of hazardous combustion gases or vapors possible in the event of fire.

Use self-contained breathing apparatus, use water for cooling container to prevent pressure build up, auto-ignition or explosion. Avoid spreading burning liquid with water.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

PERSONAL PRECAUTIONS: Avoid substance contact. Do not inhale vapors. Ensure fresh air supply in enclosed areas.

PROTECTIVE EQUIPMENT: Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

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6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

PERSONAL PRECAUTIONS: Avoid substance contact. Do not inhale vapors. Ensure fresh air supply in enclosed areas.

PROTECTIVE EQUIPMENT: Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Pick up and transfer to properly labeled containers.

SMALL SPILL: Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

LARGE SPILL: Eliminate all ignition sources. Prevent spreading over a wide area (e.g. by the use of berms or dikes created with absorbent material.) Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Consideration should be given to contacting specialized vendors to assist in mitigating the spill.

7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well ventilated place. Keep at a temperature between 0 to 50 degrees Celsius.

Store in well-ventilated area between 40 degrees F (4 degrees C) and 100 degrees F (38 degrees C). Store away from heat and sources of ignition. ECI takes no responsibility for determining what measures are required for personal protection in any specific application. The general information given should be used with discretion.

Incompatible materials: Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0025068-38-6	Diglycidyl ether of bisphenol A	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0025085-99-8	EPOXY RESIN LIQUID	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0042978-66-5	TRIPROPYLENE GLYCOL DIACRILATE	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0068609-97-2	Alkyl(C12-C14)glycidyl ether	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Eyes

Safety glasses with side shields

Skin

Hand Protection: Polyvinyl acetate/protective gloves. Body Protection: Chemical resistant gloves/gauntlets, boots, and apron (where risk of splashing.)

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Eye bath and safety shower, uniforms or aprons may be used to avoid excessive contact. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

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9. Physical and chemical properties

Appearance	Light brown Liquid
Odor	Hydrocarbon
Odor threshold	Not determined
pH	Not Applicable
Melting point / freezing point	Not Applicable
Initial boiling point and boiling range	420.0 F
Flash Point	254.40 PMCC
Evaporation rate (Ether = 1)	No applicable information was found
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No applicable information was found Upper Explosive Limit: No applicable information was found
Vapor pressure (Pa)	No applicable information was found
Vapor Density	No applicable information was found
Specific Gravity	1.1961
Solubility in Water	Immiscible
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	No applicable information was found
Decomposition temperature	Not No applicable information was found
Viscosity (cSt)	No applicable information was found
VOC Content	No applicable information was found
Percent Volatile (by volume)	0
Percent Volatile (by weight)	0

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous polymerization may occur if product is not handled as per instructions.

10.2. Chemical stability

This product requires another product to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

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10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

10.6. Hazardous decomposition products

Hydrogen Sulfide

11. Toxicological information

Acute toxicity

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapor should be avoided.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Diglycidyl ether of bisphenol A - (25068-38-6)	> 5,000.00, Rat - Category: NA	20,000.00, Rabbit - Category: NA	No data available	No data available	No data available
EPOXY RESIN LIQUID - (25085-99-8)	No data available	No data available	No data available	No data available	No data available
TRIPROPYLENE GLYCOL DIACRILATE - (42978-66-5)	3,000.00, Rat - Category: 5	2,000.00, Rabbit - Category: 4	No data available	No data available	No data available
Alkyl(C12-C14)glycidyl ether - (68609-97-2)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.

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Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Carcinogen Data

CAS No.	Ingredient	Source	Value
0025068-38-6	Diglycidyl ether of bisphenol A	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025085-99-8	EPOXY RESIN LIQUID	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0042978-66-5	TRIPROPYLENE GLYCOL DIACRILATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0068609-97-2	Alkyl(C12-C14)glycidyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

12. Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Diglycidyl ether of bisphenol A - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	Not Available
EPOXY RESIN LIQUID - (25085-99-8)	Not Available	Not Available	Not Available
TRIPROPYLENE GLYCOL DIACRILATE - (42978-66-5)	4.50, Leuciscus idus	88.70, Daphnia magna	28.00 (72 hr), Scenedesmus subspicatus
Alkyl(C12-C14)glycidyl ether - (68609-97-2)	Not Available	Not Available	Not Available

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12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: Yes; (Diglycidyl ether of bisphenol A) Note: Per IMDG 2.10.2.7, IATA Special Provision A197, and 49 CFR 171.4(c)(2) not subject to marine pollutant provisions when inner containers of combination packaging less than 5 L (liquids) or 5 kg (solids).		
14.6. Special precautions for user	No further information		

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The full text of the phrases appearing in section 3 is:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material in any process, unless specified in the text.

End of Document

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1. Identification

1.1. Product identifier

Product Identity DARK BROWN EPOXY NON-GID REPAIR RESIN | BRUNSWICK
Alternate Names DARK BROWN EPOXY NON-GID REPAIR RESIN | BRUNSWICK
81-9022 61-860073-000A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Restricted to professional users. Epoxy constituents.
Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Brunswick Bowling & Billiards
525 W. Laketon Ave.
Muskegon, MI 49441 USA

Emergency

CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. CHEMTEL +1 813-248-0585
Customer Service: Brunswick Bowling & Billiards 231-725-4966

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Irrit. 2;H315 Causes skin irritation.
Eye Irrit. 2;H319 Causes serious eye irritation.
Skin Sens. 1;H317 May cause an allergic skin reaction.
Aquatic Chronic 2;H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



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H315 Causes skin irritation.
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[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P313 Get medical advice / attention.
P321 Specific treatment (see information on this label).
P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

[Storage]:

No GHS storage statements

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
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TRIPROPYLENE GLYCOL DIACRILATE CAS Number: 0042978-66-5	5 - 10	Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411	[1]
Alkyl(C12-C14)glycidyl ether CAS Number: 0068609-97-2	0.10 - 1.0	Skin Irrit. 2;H315 Skin Sens. 1;H317	[1]

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General

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Treat symptomatically. Effects of contact or inhalation may be delayed. Keep warm and in a quiet place. Additional information is given in the SDS.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Pre-existing medical conditions aggravated by exposure may include disorders of the skin, respiratory and central nervous system.

EFFECTS: May irritate skin and cause redness and pain. Respiratory track irritation. See section 2 for further details.

Eyes

Causes serious eye irritation.

Skin

May cause an allergic skin reaction. Causes skin irritation.

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5. Fire-fighting measures

5.1. Extinguishing media

Water spray. Carbon dioxide. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

PERSONAL PRECAUTIONS: Avoid substance contact. Do not inhale vapors. Ensure fresh air supply in enclosed areas.

PROTECTIVE EQUIPMENT: Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Hazardous decomposition: Hydrogen Sulfide

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Keep away from sources of ignition. Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance. Never use welding or cutting torch on or near container (even empty) because product may ignite explosively.

COMBUSTION PRODUCTS: Vapors heavier than air. Development of hazardous combustion gases or vapors possible in the event of fire.

Use self-contained breathing apparatus, use water for cooling container to prevent pressure build up, auto-ignition or explosion. Avoid spreading burning liquid with water.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

PERSONAL PRECAUTIONS: Avoid substance contact. Do not inhale vapors. Ensure fresh air supply in enclosed areas.

PROTECTIVE EQUIPMENT: Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

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6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

PERSONAL PRECAUTIONS: Avoid substance contact. Do not inhale vapors. Ensure fresh air supply in enclosed areas.

PROTECTIVE EQUIPMENT: Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Pick up and transfer to properly labeled containers.

SMALL SPILL: Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

LARGE SPILL: Eliminate all ignition sources. Prevent spreading over a wide area (e.g. by the use of berms or dikes created with absorbent material.) Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Consideration should be given to contacting specialized vendors to assist in mitigating the spill.

7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well ventilated place. Keep at a temperature between 0 to 50 degrees Celsius.

Store in well-ventilated area between 40 degrees F (4 degrees C) and 100 degrees F (38 degrees C). Store away from heat and sources of ignition. ECI takes no responsibility for determining what measures are required for personal protection in any specific application. The general information given should be used with discretion.

Incompatible materials: Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0025068-38-6	Diglycidyl ether of bisphenol A	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0025085-99-8	EPOXY RESIN LIQUID	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0042978-66-5	TRIPROPYLENE GLYCOL DIACRILATE	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0068609-97-2	Alkyl(C12-C14)glycidyl ether	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Eyes

Safety glasses with side shields

Skin

Hand Protection: Polyvinyl acetate/protective gloves. Body Protection: Chemical resistant gloves/gauntlets, boots, and apron (where risk of splashing.)

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Eye bath and safety shower, uniforms or aprons may be used to avoid excessive contact. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

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9. Physical and chemical properties

Appearance	Dark brown, thick consistency Liquid
Odor	Hydrocarbon
Odor threshold	Not determined
pH	Not Applicable
Melting point / freezing point	Not Applicable
Initial boiling point and boiling range	420.0 F
Flash Point	254.40 PMCC
Evaporation rate (Ether = 1)	No applicable information was found
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No applicable information was found Upper Explosive Limit: No applicable information was found
Vapor pressure (Pa)	No applicable information was found
Vapor Density	No applicable information was found
Specific Gravity	1.17
Solubility in Water	Immiscible
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	No applicable information was found
Decomposition temperature	Not No applicable information was found
Viscosity (cSt)	No applicable information was found
VOC Content	No applicable information was found
Percent Volatile (by volume)	0
Percent Volatile (by weight)	0
9.2. Other information	
No other relevant information.	

10. Stability and reactivity

10.1. Reactivity

Hazardous polymerization may occur if product is not handled as per instructions.

10.2. Chemical stability

This product requires another product to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

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10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.

10.6. Hazardous decomposition products

Hydrogen Sulfide

11. Toxicological information

Acute toxicity

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapor should be avoided.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Diglycidyl ether of bisphenol A - (25068-38-6)	> 5,000.00, Rat - Category: NA	20,000.00, Rabbit - Category: NA	No data available	No data available	No data available
EPOXY RESIN LIQUID - (25085-99-8)	No data available	No data available	No data available	No data available	No data available
TRIPROPYLENE GLYCOL DIACRILATE - (42978-66-5)	3,000.00, Rat - Category: 5	2,000.00, Rabbit - Category: 4	No data available	No data available	No data available
Alkyl(C12-C14)glycidyl ether - (68609-97-2)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.

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Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Carcinogen Data

CAS No.	Ingredient	Source	Value
0025068-38-6	Diglycidyl ether of bisphenol A	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025085-99-8	EPOXY RESIN LIQUID	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0042978-66-5	TRIPROPYLENE GLYCOL DIACRILATE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0068609-97-2	Alkyl(C12-C14)glycidyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

12. Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Diglycidyl ether of bisphenol A - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	Not Available
EPOXY RESIN LIQUID - (25085-99-8)	Not Available	Not Available	Not Available
TRIPROPYLENE GLYCOL DIACRILATE - (42978-66-5)	4.50, Leuciscus idus	88.70, Daphnia magna	28.00 (72 hr), Scenedesmus subspicatus
Alkyl(C12-C14)glycidyl ether - (68609-97-2)	Not Available	Not Available	Not Available

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12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: Yes; (Diglycidyl ether of bisphenol A) Note: Per IMDG 2.10.2.7, IATA Special Provision A197, and 49 CFR 171.4(c)(2) not subject to marine pollutant provisions when inner containers of combination packaging less than 5 L (liquids) or 5 kg (solids).		
14.6. Special precautions for user	No further information		

15. Regulatory information

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Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D2B

US EPA Tier II Hazards

Fire: No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Pennsylvania RTK Substances (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

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H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material in any process, unless specified in the text.

End of Document

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1. Identification

1.1. Product identifier

Product Identity

WHITE EPOXY REPAIR HARDENER | BRUNSWICK

Alternate Names

WHITE EPOXY REPAIR HARDENER | BRUNSWICK,
61-860073-999B 82-9008

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

Restricted to professional users. Epoxy constituents.

Application Method

See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name

Brunswick Bowling Products, LLC
525 W. Laketon Ave.
Muskegon, MI 49441 USA

Emergency

24 hour Emergency Telephone No. (ChemTel)

US: 800-255-3924
International: +01-813-248-0585

Customer Service: Brunswick Bowling Products, LLC 231-725-4966

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Corr. 1B;H314 Causes severe skin burns and eye damage.
Eye Dam. 1;H318 Causes serious eye damage.
Skin Sens. 1;H317 May cause an allergic skin reaction.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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H318 Causes serious eye damage.

[Prevention]:

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P313 Get medical advice / attention.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P363 Wash contaminated clothing before reuse.

[Storage]:

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
2-piperazin-1-ethylamine CAS Number: 0000140-31-8	5 - 10	Acute Tox. 4;H312 Acute Tox. 4;H302 Skin Corr. 1B;H314 Skin Sens. 1;H317 Aquatic Chronic 3;H412	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

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4. First aid measures

4.1. Description of first aid measures

General	NOTES TO PHYSICIAN: Treat symptomatically. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Treat symptomatically. Effects of contact or inhalation may be delayed. Keep warm and in a quiet place. Additional information is given in the SDS.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview	Pre-existing medical conditions aggravated by exposure may include disorders of the skin, respiratory and central nervous system. EFFECTS: May irritate skin and cause redness and pain. Respiratory track irritation. See section 2 for further details.
Eyes	Causes serious eye damage.
Skin	May cause an allergic skin reaction. Causes severe skin burns and eye damage.

5. Fire-fighting measures

5.1. Extinguishing media

Foam, Co2, Dry Chemical.

5.2. Special hazards arising from the substance or mixture

PERSONAL PRECAUTIONS: Do not take internally. Avoid prolonged breathing of vapors. Protect against physical damage.

PROTECTIVE EQUIPMENT: Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

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Hazardous decomposition: Thermal decomposition can lead to release of irritating gases and vapors.

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open fire. Closed containers may explode when exposed to extreme heat.

Not Flammable.

Combustion Products: Carbon oxides.

Use self-contained breathing apparatus, use water for cooling container to prevent pressure build up, auto-ignition or explosion. Avoid spreading burning liquid with water.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

PERSONAL PRECAUTIONS: Do not take internally. Avoid prolonged breathing of vapors. Protect against physical damage.

PROTECTIVE EQUIPMENT: Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where risk of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

PERSONAL PRECAUTIONS: Do not take internally. Avoid prolonged breathing of vapors. Protect against physical damage.

PROTECTIVE EQUIPMENT: Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

Safety glasses with side shield, protective gloves and chemical resistant gloves/gauntlets, boots and apron (where

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rick of splashing).

EMERGENCY PRECAUTIONS: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Contain spillage and then either pump it into a salvage container or utilize absorbent material, collect the spent absorbent material in a salvage container. Dispose of the material according to Federal, State, and local regulations for disposal,

Use inert absorbent material to take up spilled material. Place in appropriate container until proper disposal method is determined.

SMALL SPILL: Eliminate all ignition sources. Contain the spill utilizing absorbent pads and absorbent dike/burn material. Place the spilled material in a salvage container for disposal according to local/national regulations. Clean up any remaining residue according to company policy. Ensure that no material enters the water system or sewer system. Local authorities should be contacted if Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

LARGE SPILL: Eliminate all ignition sources. Prevent spreading over a wide area (e.g. by the use of burms or dikes created with absorbent material.) Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained. Consideration should be given to contacting specialized vendors to assist in mitigating the spill.

7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. NO SMOKING.

Keep container tightly closed.

Ground/Bond container and receiving equipment.

Use explosion-proof electrical equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Avoid generation of vapors. Do not inhale vapors.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well ventilated place. Keep at a temperature between 0 to 50 degrees Celsius.

Store in well-ventilated area between 40 degrees F (4 degrees C) and 100 degrees F (38 degrees C). Store away from heat and sources of ignition. ECI takes no responsibility for determining what measures are required for personal protection in any specific application. The general information given should be used with discretion.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000140-31-8	2-piperazin-1-ethylamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Eyes

Safety glasses with side shields

Skin

Hand Protection: Polyvinyl acetate/protective gloves. Body Protection: Chemical resistant gloves/gauntlets, boots, and apron (where risk of splashing.)

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Eye bath and safety shower, uniforms or aprons may be used to avoid excessive contact. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance

Medium Yellow Liquid

Odor

Amine odor

Odor threshold

Not determined

pH

Not Applicable

Melting point / freezing point

Not Applicable

Initial boiling point and boiling range

N/A

Flash Point

320.00 F CC

Evaporation rate (Ether = 1)

No applicable information was found

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Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No applicable information was found Upper Explosive Limit: No applicable information was found
Vapor pressure (Pa)	No applicable information was found
Vapor Density	No applicable information was found
Specific Gravity	1.1618
Solubility in Water	Immiscible
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	No applicable information was found
Decomposition temperature	Not No applicable information was found
Viscosity (cSt)	No applicable information was found
VOC Content	No applicable information was found
Percent Volatile (by volume)	0
Percent Volatile (by weight)	0
9.2. Other information	
No other relevant information.	

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

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11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
2-piperazin-1-ethylamine - (140-31-8)	2,107.50, Rat - Category: 5	866.80, Rabbit - Category: 3	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000140-31-8	2-piperazin-1-ethylamine	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

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12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
2-piperazin-1-ethylamine - (140-31-8)	100.00, Oncorhynchus mykiss	32.00, Daphnia magna	495.00 (72 hr), Pseudokirchneriella subcapitata

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard	DOT Hazard Class: Not	IMDG: Not Applicable	Air Class: Not Applicable

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class(es)	Applicable	Sub Class: Not Applicable	
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No;		
14.6. Special precautions for user			
	No further information		

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D2B E

US EPA Tier II Hazards

Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

2-piperazin-1-ethylamine

Pennsylvania RTK Substances (>1%):

2-piperazin-1-ethylamine

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16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material in any process, unless specified in the text.

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