

Product name Injection Epoxy part B

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[Prepared in accordance with the Ordinance WE no. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010-Europe]

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product name: Injection Epoxy part B

1.2 Recommended use of the chemical and restrictions on use identified uses: injection epoxy

1.3 COMPANY IDENTIFICATION:

EPOLAC (Eng.J.Zamler) LTD

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2. HAZARDS IDENTIFICATION

2.1 Hazard classification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

H314	Category 1B	Skin corrosion
H318	Category 1	Serious eye damage
H317	Category 1	Skin Sensitization
H412	Category 3	Chronic aquatic toxicity

2.2 Labelling according to Regulation (EC) No 1272/2008 [CLP]

* Hazard Pictogram(s)



Signal word: Danger

Hazard statement:

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects

Precautionary statement (Prevention):

P262 - Do not get in eyes, on skin, or on clothing.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary statement (Response):

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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P305 + P351 + P338 - 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/doctor.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.

Precautionary Statement (Disposal)

P501 Dispose of contents/container in accordance with local regulation

2.3 Other hazards no data available**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Component:**

This product is a mixture.

CASRN / EC-No. / Index-No.	Concentration	Component	Classification
100-51-6 202-859-9 01-2119492630-38-	> 40 %	Benzyl alcohol	Acute Tox., 4, H332, Inhalation Acute Tox., 4, H302, Oral Eye Irrit., 2, H319
2855-13-2 220-666-8 01-2119514687-32	< 30 %	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	Acute Tox., 4, H302, Oral Skin Corr., 1B, H314 Skin.sens., 1, H317 Acute Tox., 4, H312, Dermal Aquatic Chronic, 3, H412
38294-64-3 500-101-4 01-2119965165-33 (covered by CAS 68609-08-5)	15 % - 40 %	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine	Skin Corr., 1B, H314 Skin.sens., 1, H317 Aquatic Chronic, 3, H412

The full text of each H phrase is listed in section 16.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

General advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Inhalation: Move to fresh air. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Skin contact: Wash off immediately with soap and plenty of water. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the

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patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes. Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Ingestion: Prevent aspiration of vomit. Turn victim's head to the side. Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

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

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.

4.3 Indication of any immediate medical attention and special treatment needed notes to physician:

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media:

Carbon dioxide (CO₂)

Dry chemical

Dry sand

Limestone powder Alcohol-resistant foam

Unsuitable extinguishing media: no data available

5.2 Special hazards arising from the substance or mixture

Incomplete combustion may form carbon monoxide.

May generate ammonia gas.

May generate toxic nitrogen oxide gases.

Burning produces noxious and toxic fumes.

Downwind personnel must be evacuated.

5.3 Advice for firefighters

Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if necessary.

Avoid contact with skin.

A face shield should be worn.

Do not allow run-off from fire fighting to enter drains or water courses.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye/face protection.

Use self-contained breathing apparatus and chemically protective clothing.

6.2 Environmental precautions: Construct a dike to prevent spreading

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Place in appropriate chemical waste container. Call Emergency Response number for advice. Approach suspected leak areas with caution. If possible, stop flow of product. Open enclosed spaces to outside atmosphere.

6.4. Reference to other sections:

For further information on exposure monitoring and disposal see sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Advice on safe handling:

- Use personal protective equipment.
- Use only in well-ventilated areas.
- Avoid breathing vapors and/or aerosols.
- Avoid contact with skin and eyes.
- Avoid contact with eyes.
- Emergency showers and eye wash stations should be readily accessible.
- Adhere to work practice rules established by government regulations.

Hygiene measures:

- Provide readily accessible eye wash stations and safety showers.

General protective measures:

- Discard contaminated leather articles.
- Wash hands at the end of each workshift and before eating, smoking or using the toilet.

7.2 Conditions for safe storage:**Prevention of fire and explosion**

No special measures required

Storage

Do not store near acids.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific end use(s)

No further information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate Engineering controls:

- Provide readily accessible eye wash stations and safety showers.
- Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Eye protection:

- Full face shield with goggles underneath.

- Chemical resistant goggles must be worn.

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Hand protection:

- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

- Butyl-rubber

- Nitrile rubber

- Neoprene gloves

- Impervious gloves

- PVC disposable gloves

Body Protection:

- No specific recommendation. Impervious clothing

- Full rubber suit (rain gear).

- Rubber or plastic boots

Respiratory protection:

- Not required for properly ventilated areas. Wear appropriate respirator when ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Physical state	Liquid
Color	Light yellow
Odor	Ammoniacal
Odor Threshold	No data available
pH	9
	8,5 g/l
Melting point	No data available
Boiling point	205 °C
Flash point	96°C
Evaporation Rate	No data available
Flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor Pressure	< 13.7549 hPa at 21 °C
Relative Vapor Density	No data available
Relative Density (water = 1)	1.03
Water solubility	< 0,1 g/l
Partition coefficient: n-	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Dynamic Viscosity	No data available
Kinematic Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Density:	1,03 g/cm ³ (21 °C)

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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10. STABILITY AND REACTIVITY

10.1 Reactivity: no data available.

10.2 Chemical stability: Stable under recommended, normal storage conditions.

10.3 Possibility of hazardous reactions: no data available.

10.4 Conditions to avoid: no data available.

10.5 Incompatible materials:

Reactive metals (e.g. sodium, calcium, zinc etc.).

Materials reactive with hydroxyl compounds.

Organic acids (i.e. acetic acid, citric acid etc.).

Mineral acids.

sodium hypochlorite

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Oxidizing agents

10.6 Hazardous decomposition products:

Nitric acid

Ammonia

Nitrogen oxides (NO_x)

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Carbon monoxide

Carbon dioxide (CO₂)

Aldehydes

Flammable hydrocarbon fragments.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

11.1 Information on toxicological effects

Acute toxicity (oral): LD50

Species: Rat

Dose: 2.369 mg/kg

Acute toxicity (inhalation): No data is available on the product itself.

Acute toxicity estimate

Exposure duration: 4 h

Test atmosphere: vapour

Dose: > 20 mg/l

Method: Calculation method

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Acute toxicity (dermal): LD50

Species: Rabbit

Dose: > 2.000 mg/kg

Method: estimated

Irritation/corrosion of the skin: Species: Rabbit

Classification: Corrosive

Method: OECD Test Guideline 404

Exposure duration: 2 h

Remarks: Corrosive to the skin of a rabbit.

Serious eye damage/ eye irritation: Species: Rabbit

Remarks: Severe eye irritation

Risk of serious damage to eyes.

Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere.

Respiratory/skin sensitization: no data available

Repeated dose toxicity:

Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg.

No evidence of carcinogenicity was seen in a two-year study with rats and mice.

CMR assessment

Carcinogenicity: no data available

Mutagenicity: No data is available on the product itself.

Teratogenicity: No data is available on the product itself.

Toxicity to reproduction: No data is available on the product itself.

Specific Target Organ Toxicity - Single exposure: no data available

Specific Target Organ Toxicity - Repeated exposure: no data available

Aspiration hazard: no data available

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment

Acute aquatic toxicity: no data available

Chronic aquatic toxicity: no data available

12.1 Toxicity

Aquaticity, fish: No data is available on the product itself.

Aquaticity, invertebrates: No data is available on the product itself.

Aquaticity, algae / aquatic plants: No data is available on the product itself.

Toxicity in microorganisms: no data available

Chronic toxicity in fish: no data available

Chronic toxicity in aquatic Invertebrates: no data available

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12.2 Persistence and degradability

Photodegradation: no data available

Biological degradability: no data available

12.3 Bioaccumulative potential

Bioaccumulation: no data available

12.4 Mobility in soil

Environmental distribution: no data available

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment: no data available

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

General Information: do not allow to enter soil, waterways or waste water canal.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

Transport on land (ADR/RID/GGVSEB)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Cycloaliphatic amine, Isophoronediamine (IPD))

14.3. Transport hazard class(es): 8

14.4. Packing group: II

14.5. Environmental hazards: --

14.6. Special precautions for user: Yes

ADR: Tunnel Restriction Code: (E)

Keep separate from foodstuffs, luxury foods, feedstuffs

Inland waterway transport (ADN/GGVSEB (Germany))

14.6. Special precautions for user: Yes

Keep separate from foodstuffs, luxury foods, feedstuffs

Air transport ICAO-TI/IATA-DGR

14.1. UN number: UN 2735

14.2. UN proper shipping name: Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine, Isophoronediamine (IPD))

14.3. Transport hazard class(es): 8

14.4. Packing group: II

14.5. Environmental hazards: --

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14.6. Special precautions for user: Yes
Keep separate from foodstuffs, luxury foods, feedstuffs

Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Cycloaliphatic amine, Isophoronediamine (IPD))

14.3. Transport hazard class(es): 8

14.4. Packing group: II

14.5. Environmental hazards (Marine pollutant): --

14.6. Special precautions for user: Yes

EmS: F-A, S-B

Keep separate from acids.

Keep separate from foodstuffs, luxury foods, feedstuffs

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

15. REGULATORY INFORMATION

15.1 Label

Classification and labeling have been performed according to regulations.

Hazard symbol and Indication of danger

Europe regulatory Not applicable**REACH Restricted substance under REACH** Not applicable**REACH Substances subject to authorization under REACH** Not applicable**REACH SVHC** Not applicable**Europe PBT** Not applicable**European Union (EU) Transport of Dangerous Goods by Road - Dangerous Goods List** Not applicable

16. OTHER INFORMATION

List of references

Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP). Classification procedure:

Skin Corr., 1B, H314 Calculation method

Eye Dam., 1, H318 Calculation method

Skin.sens., 1, H317 Calculation method

Aquatic Chronic, 3, H412 Calculation method

Relevant H phrases from chapter 3

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.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long lasting effect



Safety data sheet

according to 1907/2006/EC, Article 31

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