

Permatex, Inc.
10 Columbus Blvd.
Hartford, CT 06106 USA
Telephone: 1-87-Permatex
(877) 376-2839
Emergency: 800-255-3924
International Emergency: 813-248-0585

SAFETY DATA SHEET
according to EC Directive 2001/58/EC

1. IDENTIFICATION OF THE PREPARATION

Identification of the preparation: 84101 PERMAPOXY 5 MIN.GENERAL PURPOSE EPOXY PART 1 25 ML
Item No: VC1233B
Recommended use: Epoxy resin

2. HAZARDS IDENTIFICATION

Classification: Xi - Irritant, N - Dangerous for the environment
Most Important Hazards: Irritating to eyes and skin. May cause allergic skin reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	EC Number	EU Classification	Exposure limits
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	>60	500-033-5	Xi; R36/38 R43 N; R51-53	Not listed

4. FIRST-AID MEASURES

General advice: If you feel unwell, seek medical advice (show the label where possible).
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, seek medical advice immediately and show this container or label.
Protection of first-aiders: Avoid contact with skin, eyes and clothing. Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO2), dry chemical, foam
Extinguishing media which must not be used for safety reasons: None reasonably foreseeable.
Special instructions for protection and hygiene: Thermal decomposition can lead to release of irritating gases and vapours.
Special protective equipment for firefighters: Avoid contact with eyes. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: For additional information on processing see sections 7, 8 and 11 of this safety data sheet.
Environmental Precautions: Do not flush into surface water or sanitary sewer system..

6. ACCIDENTAL RELEASE MEASURES

Cleanup: Ensure adequate ventilation. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with the skin and the eyes. Avoid breathing vapors or mists. Wash hands before breaks and immediately after handling the product.

Storage: Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Provide adequate ventilation .

Respiratory Protection: Not required under normal use. In case of insufficient ventilation, wear suitable respiratory equipment.

Skin: Rubber or plastic gloves. Wash contaminated clothing before re-use.

Eyes: Safety glasses.

Hygiene Measures: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: translucent liquid

Odor: Slight

pH: Does not apply

Boiling point/range: >250°C

Melting point: Not determined

Flash point: >200°C

Risk of explosion: Keep away from heat and sources of ignition.

Vapor pressure: <0.1 mm Hg

Density: 1.17

Solubility in water: Negligible

Partition coefficient (n-octanol/water): Not determined

Vapor density: >1 (Air = 1)

Evaporation Rate: <1 (butyl acetate = 1)

VOC Content(%): 0

10. STABILITY/REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Heat.

Materials to avoid: Incompatible with strong bases and oxidizing agents, Acids

Hazardous decomposition products: Carbon oxides, aldehydes

11. TOXICOLOGICAL INFORMATION

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat
BISPHENOL A/EPICHLOROXYDRIN BASED EPOXY RESIN 25068-38-6	>60	11400 mg/kg	

Local Effects

Skin Irritation: Contact with product at elevated temperatures can result in thermal burns. May cause allergic skin reaction.

Eye Irritation: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Inhalation: May cause irritation of respiratory tract.

Product Name: 84101 PERMAPOXY 5 MIN.GENERAL
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Ingestion: Irritating to mouth, throat and stomach.
Sensitization: May cause sensitization of susceptible persons by skin contact.
Chronic toxicity: None reasonably foreseeable

Specific Effects

Carcinogenic effects: None reasonably foreseeable.
Mutagenic effects: None reasonably foreseeable.
Reproductive toxicity: None reasonably foreseeable.
Target Organ Effects: Eyes, Skin, Respiratory System, Gastrointestinal Tract

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste from Residues: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

RoHS/WEEE: This product is in compliance with EU Directive 2002/95/EC Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) and EU Directive 2002/96/EC Restriction on waste electrical and electronic equipment (WEEE).

14. TRANSPORT INFORMATION

IATA

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
UN/ID No: Not applicable

IMDG

Proper shipping name: Not applicable
Hazard Class: Not applicable
UN/ID No: Not applicable
Marine Pollutant: None

ADR/RID

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s (bisphenol)
Hazard Class: Class 9, PGIII
UN/ID No: None
ADR/RID: Limited Quantity; LQ7

15. REGULATORY INFORMATION

This product is classified in accordance with Annex VI to Directive 67/548/EEC

Contains bisphenol: may cause sensitization by skin contact. Contains epoxy constituents. See information supplied by the manufacturer.

Indication of Danger:

Xi - Irritant, N - Dangerous for the environment

R -phrase(s):

R36/38 - Irritating to eyes and skin
R43 - May cause sensitization by skin contact
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Product Name: 84101 PERMAPOXY 5 MIN.GENERAL
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S -phrase(s):

S 2 - Keep out of the reach of children

S24/25 - Avoid contact with skin and eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37 - Wear suitable protective clothing and gloves

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

16. OTHER INFORMATION

Risk Phrases mentioned in Section 2:

R43 - May cause sensitization by skin contact.

R36/38 - Irritating to eyes and skin.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Prepared By: Denise Boyd, Health and Safety
Manager

Company: Permatex. Inc. 10 Columbus
Blvd. Hartford, CT USA 06106

Telephone: 877-376-2839

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Hartford, CT 06106 USA
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SAFETY DATA SHEET
according to EC Directive 2001/58/EC

1. IDENTIFICATION OF THE PREPARATION

Identification of the preparation: 84101 PERMAPOXY 5 MIN.GENERAL PURPOSE EPOXY PART 2 25 ML
Item No: VC1521B
Recommended use: Curing chemical

2. HAZARDS IDENTIFICATION

Classification: Xn - Harmful
Most Important Hazards: Harmful by inhalation. Danger of serious damage to health by prolonged exposure. Irritating to eyes and skin. May cause allergic skin reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	EC Number	EU Classification	Exposure limits
MERCAPTAN AMINE BLEND MIXTURE	>60	Not determined	Xn:R48/20 Xi:R43	Not listed
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL 90-72-2	<20	202-013-9	Xn;R22 Xi;R36/38	Not listed

4. FIRST-AID MEASURES

General advice: If you feel unwell, seek medical advice (show the label where possible).
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, seek medical advice immediately and show this container or label.
Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.
Notes to Physician: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: water spray, Carbon dioxide (CO2), dry chemical, foam
Extinguishing media which must not be used for safety reasons: None reasonably foreseeable.
Special instructions for protection and hygiene: Thermal decomposition can lead to release of irritating gases and vapours.
Special protective equipment for firefighters: Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: For additional information on processing see sections 7, 8 and 11 of this safety data sheet.
Environmental Precautions: Do not flush into surface water or sanitary sewer system..
Cleanup: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling precautions: Avoid breathing vapors or mists. Avoid contact with the skin and the eyes.
Storage: Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Provide adequate ventilation .
Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Skin: Rubber or plastic gloves. Wash contaminated clothing before re-use.
Eyes: Safety glasses.
Hygiene Measures: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid
Odor: Mercaptan
pH: 9.5 (5% slurry in water)
Boiling point/range: No information available
Melting point: Not determined
Flash point: >95°C
Risk of explosion: None reasonably foreseeable.
Vapor pressure: <1 mmHg @ 40°C
Density: 1.13
Solubility in water: Negligible
Partition coefficient (n-octanol/water): Not determined
Vapor density: Not determined
Evaporation Rate: Not determined
VOC Content(%): 0

10. STABILITY/REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: Heat.
Materials to avoid: Strong oxidizing agents, Amines
Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx), Amines, Ammonia

11. TOXICOLOGICAL INFORMATION

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL 90-72-2	<20	1000 mg/kg	inhal rat; >0.5 mg/l 4h.

Local Effects

Skin Irritation: May cause skin irritation and/or dermatitis. May cause allergic skin reaction.
Eye Irritation: Irritating, but will not permanently injure eye tissue.
Inhalation: Harmful by inhalation.
Ingestion: Irritating to mouth, throat and stomach.
Sensitization: May cause sensitization of susceptible persons by skin contact.

Product Name: 84101 PERMAPOXY 5 MIN.GENERAL
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Item No: VC1521B

Chronic toxicity: Danger of serious damage to health by prolonged exposure

Specific Effects

Carcinogenic effects: None reasonably foreseeable.

Mutagenic effects: None reasonably foreseeable.

Reproductive toxicity: None reasonably foreseeable.

Target Organ Effects: Eyes, Skin, Respiratory System, Gastrointestinal Tract

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

IATA

Proper Shipping Name: Not regulated

Hazard Class: Not applicable

UN/ID No: Not applicable

IMDG

Proper shipping name: Not applicable

Hazard Class: Not applicable

UN/ID No: Not applicable

Marine Pollutant: None

ADR/RID

Proper Shipping Name: Not regulated

Hazard Class: Not applicable

UN/ID No: None

15. REGULATORY INFORMATION

This product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of Danger:

Xn - Harmful, -dimethylaminomethylphenol, phenol

R -phrase(s):

R36/38 - Irritating to eyes and skin

R43 - May cause sensitization by skin contact

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

S -phrase(s):

S 2 - Keep out of the reach of children

S24/25 - Avoid contact with skin and eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37 - Wear suitable protective clothing and gloves

S51 - Use only in well-ventilated areas

16. OTHER INFORMATION

Risk Phrases mentioned in Section 2:

R22 - Harmful if swallowed.

R43 - May cause sensitization by skin contact.

Product Name: 84101 PERMAPOXY 5 MIN.GENERAL
PURPOSE EPOXY PART 2 25 ML

Item No: VC1521B

16. OTHER INFORMATION

R36/38 - Irritating to eyes and skin.

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Prepared By: Denise Boyd, Health and Safety
Manager

Revision Date: November/07/2005

Company: Permatex. Inc. 10 Columbus
Blvd. Hartford, CT USA 06106

Revision Number: 1

Telephone: 877-376-2839