



SAFETY DATA SHEET Permabond ET5147A

1. Identification

Product identifier

Product name Permabond ET5147A

Recommended use of the chemical and restrictions on use

Application Adhesive.

Details of the supplier of the safety data sheet

Supplier Permabond LLC

14 Robinson Street Pottstown, PA 19464

USA

Telephone: 732-868-1372 or 800-640-7599

Website: www.permabond.com

Emergency telephone number

Emergency telephone Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 Transport:

CHEMTREC 800-424-9300

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200)

and is consistent with the provisions of the United Nations Globally Harmonized System of

Classification and Labeling of Chemicals (GHS).

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Label elements

Pictogram





Signal word Warning

Hazard statements 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.

Precautionary statements P261 Avoid breathing vapor/ spray.

P264 Wash contaminated skin thoroughly after handling.

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

P273 Avoid release to the environment.

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

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see medical advice on this label).

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

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

Contains EPOXY RESIN (Number average MW <= 700), TRIMETHYLOLPROPANE TRIACRYLATE

3. Composition/information on ingredients

Mixtures

EPOXY RESIN (Number average MW <= 700)

30-60%

CAS number: 25068-38-6

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

TRIMETHYLOLPROPANE TRIACRYLATE

5-10%

CAS number: 15625-89-5

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

Composition comments Exact percentage is a trade secret. Concentration range is provided to assist users in

providing appropriate protections.

4. First-aid measures

Description of first aid measures

Inhalation Move the exposed person to fresh air. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get

medical attention if any discomfort continues.

Skin Contact Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms

develop, obtain medical attention

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Eye contact Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove any

contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctorNo specific recommendations. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Hazardous combustion

products

Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide,

and unknown hydrocarbons.

Advice for firefighters

Protective actions during

firefighting

Use water to keep fire exposed containers cool and disperse vapors.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for

disposal.

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid contact with skin, eyes and clothing. Do not breathe vapour/spray. Wash hands

thoroughly after handling. Keep container tightly sealed when not in use.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Specific end uses(s)

Specific end use(s) Adhesive.

8. Exposure Controls/personal protection

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Ingredient comments No exposure limits known for ingredient(s).

Exposure controls

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure

limits for the product or ingredients.

Eye/face protection Safety goggles or safety glasses with side shields. Full face protection should be used if the

potential for slashing or spraying exists.

Hand protection Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should

not be worn.

Other skin and body

protection

Employee must wear appropriate protective clothing and equipment to prevent any possibility

of skin contact with this substance.

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly

remove any clothing that becomes contaminated.

Respiratory protection Respiratory protection may be required if excessive airborne contamination occurs. Use

NIOSH approved respirator if there is potential to exceed exposure limit(s).

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Viscous liquid.

Color White.

Odor Mild.

Odor threshold No information available.

pH Not relevant.Melting point Not available.

Initial boiling point and range Not relevant.

Flash point >100°C

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.3

Solubility(ies) Insoluble in water. Soluble in the following materials: Organic solvents.

Partition coefficient Not available.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not available.

Viscosity ≈120000 mPa s @ 23°C Thixotropic

Explosive properties Not relevant.

Oxidizing properties Not applicable.

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Other information Not relevant.

Volatile organic compound <2 %, 20 grams/liter (Estimated)

10. Stability and reactivity

Reactivity The following materials may react with the product: Strong oxidizing agents. Acids.

Stability Stable at normal ambient temperatures. Polymerizes when heated.

Possibility of hazardous

reactions

Reactions with the following materials may generate heat: Amines.

Conditions to avoid Do not store near heat sources or expose to high temperatures.

Materials to avoid Amines. Strong oxidizing agents.

Hazardous decomposition

products

Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified

organic compounds.

11. Toxicological information

Information on toxicological effects

Toxicological effects The toxicological properties of this product have not been fully evaluated. Use of good

industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or

inhale.

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitization

Skin sensitization May cause sensitisation by skin contact.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Genotoxicity - in vivoBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity No component of this product present at levels great than or equal to 0.1% is identified as a

known carcinogen.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

Does not contain any substances known to be toxic to reproduction.

development

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazardBased on available data the classification criteria are not met.

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Inhalation Unlikely to be hazardous by inhalation because of the low vapor pressure of the product at

ambient temperature. In high concentrations, vapors may irritate throat and respiratory system

and cause coughing.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin Contact Irritating to skin.

Eye contact Irritating and may cause redness and pain.

Acute and chronic health

hazards

This product is moderately irritating. May cause sensitisation by skin contact.

Target Organs Eyes Skin

Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

11,400.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No specific test data are available.

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Animal data Edema score: Very slight oedema - barely perceptible (1).

Serious eye damage/irritation

Serious eye damage/irritation

Not irritating.

Respiratory sensitization

Respiratory sensitization No specific test data are available.

Skin sensitization

Skin sensitization Local Lymph Node Assay (LLNA) - Mouse: Sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro Conclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity Conclusive data but not sufficient for classification.

Reproductive toxicity

Reproductive toxicity -

fertility

Fertility - NOAEL 750 mg/kg/day, Oral, Rat

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Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

TRIMETHYLOLPROPANE TRIACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rat

Acute toxicity - inhalation

Notes (inhalation LC50) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Slightly irritating.

Serious eye damage/irritation

Serious eye

Moderately irritating.

damage/irritation

Skin sensitization

Skin sensitization Sensitizing.

Germ cell mutagenicity

Gene mutation: Positive. Genotoxicity - in vitro

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

NOAEL >= 3 mg/kg/day, Dermal, Mouse Carcinogenicity

Reproductive toxicity

Reproductive toxicity -

Screening - NOAEL 300 mg/kg/day, Oral, Rat F1

fertility

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: >=130 mg/kg/day, Oral, Rabbit

Specific target organ toxicity - single exposure

STOT - single exposure Irritating to respiratory system.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 0.3 mg/kg/day, Dermal, Rat

Aspiration hazard

Aspiration hazard Not applicable.

12. Ecological Information

Toxicity No data available.

Bioaccumulative potential

Partition coefficient Not available.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information Empty containers may contain product residue; follow SDS and label warnings even after they

have been emptied.

Disposal methodsDispose of according to Federal, State and local governmental regulations.

14. Transport information

Sea transport notes Applies only to inner containers >5 litres. See 2.10.2.7 of the IMDG code.

Air transport notes Applies only to inner containers >5 liters. See SP A197 (375)

DOT transport notes Applies only to inner containers >5 liters. See CFR 49173.155 and 172.102.173

UN Number

3082

UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (contains Epoxy resin)

Transport hazard class(es)

9

Transport labels



Packing group

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Environmental hazards

Environmentally Hazardous Substance



15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None above reporting levels

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None above reporting limits

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

SARA 313 Emission Reporting

None above reporting limits

SARA (311/312) Hazard Categories

Acute Chronic

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Known to the State of California to cause cancer.

TITANIUM DIOXIDE

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US-TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None above reporting limits

16. Other information

Revision date 8/3/2018

Revision 4

Supersedes date 3/29/2016

Hazard statements in full 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. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.





SAFETY DATA SHEET Permabond ET5147B

1. Identification

Product identifier

Product name Permabond ET5147B

Recommended use of the chemical and restrictions on use

Application Two-component, epoxy-based adhesive.

Details of the supplier of the safety data sheet

Supplier Permabond LLC

14 Robinson Street Pottstown, PA 19464

USA

Telephone: 732-868-1372 or 800-640-7599

Website: www.permabond.com

Emergency telephone number

Emergency telephone Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 Transport:

CHEMTREC 800-424-9300

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200)

and is consistent with the provisions of the United Nations Globally Harmonized System of

Classification and Labeling of Chemicals (GHS).

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Not Classified

Label elements

Pictogram





Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements P260 Do not breathe vapor/ spray.

P261 Avoid breathing vapor/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

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.

P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

Contains POLYAMIDOAMINE, AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE

FRACTION

3. Composition/information on ingredients

Mixtures

POLYAMIDOAMINE 30-60%

CAS number: 68082-29-1

REACH registration exemption - POLYMER

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION

10-30%

CAS number: 90640-67-8

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

providing appropriate protections.

4. First-aid measures

Description of first aid measures

Permabond ET5147B

Inhalation Move the exposed person to fresh air. Get medical attention if any discomfort continues.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical

attention.

Skin Contact Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms

develop, obtain medical attention

Eye contact Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove any

contact lenses and open eyelids wide apart. Get medical attention.

Most important symptoms and effects, both acute and delayed

Ingestion May cause chemical burns in mouth and throat.

Skin contact Chemical burns. Mild dermatitis, allergic skin rash.

Eye contact May cause serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctorNo specific recommendations. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards In case of fire, keep containers cool with water spray. Closed containers may rupture (due to

buildup of pressure) when exposed to extreme heat.

Hazardous combustion

products

Burning produces irritating, toxic and obnoxious fumes. Nitrous gases (NOx). Carbon

monoxide, carbon dioxide, and unknown hydrocarbons.

Advice for firefighters

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for

disposal.

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Permabond ET5147B

Usage precautions Avoid contact with skin, eyes and clothing. Do not breathe gas, fume, vapours or spray. Wash

hands thoroughly after handling. Use only in well-ventilated areas. Keep container tightly

sealed when not in use.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Specific end uses(s)

Specific end use(s) Adhesive. Sealant.

8. Exposure Controls/personal protection

Exposure controls

Appropriate engineering

Provide adequate general and local exhaust ventilation. Observe any occupational exposure

limits for the product or ingredients.

Eye/face protection The following protection should be worn: Chemical splash goggles or face shield.

Hand protection Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should

not be worn.

Other skin and body

protection

controls

Employee must wear appropriate protective clothing and equipment to prevent any possibility

of skin contact with this substance.

Hygiene measures Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly

remove any clothing that becomes contaminated. Use appropriate skin cream to prevent

drying of skin. When using do not eat, drink or smoke.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Viscous liquid.

Color Ivory

Odor Amine.

Odor threshold Not determined.

pH Not determined.

Melting point Not determined.

Initial boiling point and range Not determined.

Flash point >100°C

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not available.

Vapor pressure Not determined.

Vapor density Not determined.

Relative density 1.2

Solubility(ies) Slightly soluble in water. Soluble in the following materials: Organic solvents.

Partition coefficient Not available.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Viscosity ≈240000 mPa s @ 23°C Thixotropic

Explosive properties Not determined.

Oxidizing properties Not applicable.

Other information Not relevant.

Volatile organic compound <2 %, 20 grams/liter (Estimated)

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Reactions with the following materials may generate heat: Epoxy Resin

Conditions to avoid Avoid excessive heat for prolonged periods of time.

Materials to avoid Avoid contact with the following materials: Acids. Oxidizing agents.

Hazardous decomposition

products

Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified

organic compounds.

11. Toxicological information

Information on toxicological effects

Toxicological effectsThe toxicological properties of this product have not been fully evaluated. Use of good

industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or

inhale.

Skin corrosion/irritation

Skin corrosion/irritation Causes burns.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Skin sensitization

Skin sensitization May cause sensitisation by skin contact.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

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Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation Unlikely to be hazardous by inhalation because of the low vapor pressure of the product at

ambient temperature. Gas or vapor in high concentrations may irritate the respiratory system.

Symptoms following overexposure may include the following: Coughing.

Ingestion Causes burns. May cause chemical burns in mouth and throat. May cause stomach pain or

vomiting.

Skin Contact This product is strongly irritating. Prolonged contact may cause burns.

Eye contact Causes serious eye damage.

Acute and chronic health

hazards

This product is strongly irritating. Causes burns. May cause chemical eye burns.

Route of exposure Skin and/or eye contact

Toxicological information on ingredients.

POLYAMIDOAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,000.1

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye Irritating to eyes.

damage/irritation

Respiratory sensitization

Respiratory sensitization No information available.

Skin sensitization

Skin sensitization Sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Permabond ET5147B

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity -

Screening - NOAEL 1000 mg/kg/day, Oral, Rat

fertility

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not available.

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION

Acute toxicity - oral

Acute toxicity oral (LD₅o

1,716.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,465.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

Serious eye Causes serious eye damage.

damage/irritation

Respiratory sensitization

Respiratory sensitization May cause allergic reaction.

Skin sensitization

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

12. Ecological Information

Toxicity There are no data on the ecotoxicity of this product.

Bioaccumulative potential

Partition coefficient Not available.

13. Disposal considerations

Waste treatment methods

General information Empty containers may contain product residue; follow SDS and label warnings even after they

have been emptied.

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

14. Transport information

UN Number

UN No. (IMDG) 2735 UN No. (ICAO) 2735

UN No. (DOT) UN2735

UN proper shipping name

Polyamines, Liquid, Corrosive, n.o.s. (contains Triethylenetetramine)

Proper shipping name (IMDG) POLYAMINES, LIQUID, CORROSIVE, N.O.S (contains 2,4,6-

Tris(dimethylaminomethyl)phenol

Proper shipping name (ICAO) POLYAMINES, LIQUID, CORROSIVE, N.O.S (contains 2,4,6-

Tris(dimethylaminomethyl)phenol

Proper shipping name (DOT) POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains 2,4,6-

Tris(dimethylaminomethyl)phenol

Transport hazard class(es)

DOT hazard class 8
DOT hazard label 8
IMDG Class 8

ICAO class/division 8

Transport labels



Permabond ET5147B

DOT transport labels



Packing group

IMDG packing group

ICAO packing group

DOT packing group

Environmental hazards

Environmentally Hazardous Substance

No.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None above reporting levels

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None above reporting limits

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

SARA 313 Emission Reporting

None above reporting limits

SARA (311/312) Hazard Categories

Acute Chronic

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None above reporting limits

16. Other information

Classification abbreviations Eye Dam. = Serious eye damage

and acronyms Skin Corr. = Skin corrosion

Skin Sens. = Skin sensitisation

Revision date 8/3/2018

Revision 3

Supersedes date 7/13/2015

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.