

# SAFETY DATA SHEET Permabond ET5429B

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name Permabond ET5429B

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

**Identified uses** Two-component, epoxy-based adhesive.

## 1.3. Details of the supplier of the safety data sheet

**Supplier** Permabond Engineering Adhesives Ltd.

Wessex Way Colden Common Winchester

Hampshire SO21 1WP United Kingdom

Tel: +44 (0)1962 711 661 Fax: +44 (0)1962 711 662 info.europe@permabond.com

## 1.4. Emergency telephone number

Emergency telephone CHEMTREC UK: +(44)-870-8200418 CHEMTREC US: 800-424-9300 (CCN: 829878)

National emergency telephone CHEMTREC Ireland: +(353)-19014670

number CHEMTREC Australia: +(61)-290372994

CHEMTREC New Zealand: +(64)-98010034

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

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

Environmental hazards Not Classified

#### 2.2. Label elements

## Hazard pictograms





Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

## Permabond ET5429B

**Precautionary statements** P280 Wear protective gloves/ protective clothing/ eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352a IF ON SKIN: Wash with plenty of soap and 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.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

Contains POLYAMIDOAMINE, ATBN POLYMER, 3,3'-OXYBIS(ETHYLENEOXY)BIS(PROPYLAMINE),

2-PIPERAZIN-1-YLETHYLAMINE

Supplementary precautionary

statements

P264 Wash contaminated skin thoroughly after handling.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with existing Community, National and

local regulations.

#### 2.3. Other hazards

None under normal conditions. This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

POLYAMIDOAMINE 60-100%

CAS number: 68082-29-1 EC number: 500-191-5

REACH registration exemption - POLYMER

Classification

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

ATBN POLYMER 10-30%

CAS number: 68683-29-4

REACH registration exemption - POLYMER

Classification

Skin Irrit. 2 - H315 Skin Sens. 1 - H317

# TRIS-2,4,6-(DIMETHYLAMINOMETHYL)PHENOL

10-30%

CAS number: 90-72-2 EC number: 202-013-9 REACH registration number: 01-

2119560597-27-XXXX

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

## Permabond ET5429B

## 3,3'-OXYBIS(ETHYLENEOXY)BIS(PROPYLAMINE)

5-10%

CAS number: 4246-51-9 EC number: 224-207-2 REACH registration number: 01-

2119963377-26-XXXX

Classification

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

## 2-PIPERAZIN-1-YLETHYLAMINE

<1%

CAS number: 140-31-8 EC number: 205-411-0 REACH registration number: 01-

2119471486-30-XXXX

Classification

Acute Tox. 4 - H302 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT RE 1 - H372 Aquatic Chronic 3 - H412

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

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

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

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water.

Give plenty of water to drink. DO NOT induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin 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. Show this Safety Data

Sheet to the medical personnel.

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

**Inhalation** Irritation of nose, throat and airway.

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.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. Treat symptomatically.

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

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

## Permabond ET5429B

Unsuitable extinguishing

media

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

## 5.2. Special hazards arising from the substance or mixture

**Specific hazards** No unusual fire or explosion hazards noted.

Hazardous combustion Burning produces irritating, toxic and obno

products

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

monoxide, carbon dioxide, and unknown hydrocarbons.

## 5.3. Advice for firefighters

Special protective equipment

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

for firefighters clothin

#### SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

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

## 6.2. Environmental precautions

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

#### 6.3. 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. Wash area with soap and water.

## 6.4. Reference to other sections

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

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Do not ingest or inhale. Do not eat, drink or smoke when

using this product.

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in closed original container at temperatures between 5°C and 25°C.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) Adhesive. Sealant.

## SECTION 8: Exposure controls/Personal protection

## 8.1. Control parameters

#### POLYAMIDOAMINE (CAS: 68082-29-1)

**DNEL** Workers - Inhalation; Long term systemic effects: 3.9 mg/m³

Workers - Dermal; Long term systemic effects: 1.1 mg/kg/day

PNEC Fresh water; 0.004 mg/l

marine water; 0 mg/l STP; 3.84 mg/l

Sediment (Freshwater); 434.02 mg/kg Sediment (Marinewater); 43.4 mg/kg

## Permabond ET5429B

## TRIS-2,4,6-(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

PNEC Fresh water; 0.084 mg/l

marine water; 0.008 mg/l

STP; 0.2 mg/l

## 3,3'-OXYBIS(ETHYLENEOXY)BIS(PROPYLAMINE) (CAS: 4246-51-9)

**DNEL** Workers - Inhalation; Long term systemic effects: 59 mg/m³

Workers - Inhalation; Short term systemic effects: 176 mg/m³ Workers - Inhalation; Long term local effects: 1 mg/m³ Workers - Inhalation; Short term local effects: 13 mg/m³ Workers - Dermal; Long term systemic effects: 8.3 mg/kg

PNEC Fresh water; 0.22 mg/l

marine water; 0.022 mg/l Intermittent release; 2.2 mg/l

STP; 125 mg/l

Sediment (Freshwater); 0.809 mg/kg Sediment (Marinewater); 0.0809 mg/kg

Soil; 0.0337 mg/kg

## 2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

**DNEL** Workers - Inhalation; Long term systemic effects: 10.6 mg/m³

Workers - Inhalation; Short term systemic effects: 10.6 mg/m³ Workers - Inhalation; Long term local effects: 15 µg/m³ Workers - Inhalation; Short term local effects: 80 mg/m³ Workers - Dermal; Long term systemic effects: 3.33 mg/kg/day

PNEC Fresh water; 0.058 mg/l

marine water; 0.006 mg/l

STP; 250 mg/l

Sediment (Freshwater); 215 mg/kg Sediment (Marinewater); 21.5 mg/kg Intermittent release; 0.58 mg/l

## 8.2. Exposure controls

# Protective equipment







Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166

## Permabond ET5429B

conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.4$  mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

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. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Use of good industrial hygiene

practices is required.

Respiratory protection Ensure adequate ventilation of the working area. Respiratory protection may be required if

excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

Organic vapour filter. Type A. (EN14387)

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance Paste.

Colour Black.

Odour Amine.

Odour 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.

Upper/lower flammability or

explosive limits

Not applicable.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density 1.0

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

Partition coefficient Not applicable.

Auto-ignition temperature Not determined.

**Decomposition Temperature** Not determined.

Viscosity ≈150000 mPa s @ 23°C Thixotropic

## Permabond ET5429B

Explosive properties Not determined.

Oxidising properties Not applicable.

9.2. Other information

Other information Not relevant.

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** Under normal conditions of storage and use, no hazardous reactions will occur.

10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Reactions with the following materials may generate heat: Epoxy resin

#### 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

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

## 10.6. Hazardous decomposition products

Hazardous decomposition

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

**products** organic compounds.

## SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

**Toxicological effects**The mixture is classified based on the available hazard information for the ingredients as

defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the

substances listed under Section 3 is provided in the following.

Skin sensitisation

**Skin sensitisation** May cause sensitisation by skin contact.

Aspiration hazard

**Aspiration hazard** None under normal conditions.

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

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

system and cause 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.

## Toxicological information on ingredients.

#### **POLYAMIDOAMINE**

# Permabond ET5429B

Acute toxicity - oral

Acute toxicity oral (LD50

2,000.1

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 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 sensitisation

**Respiratory sensitisation** No information available.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro**No information available.

Carcinogenicity

**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.

ATBN POLYMER

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 15,400.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 3,000.0

mg/kg)

## Permabond ET5429B

Species Rabbit

Acute toxicity - inhalation

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

Skin corrosion/irritation

**Skin corrosion/irritation** Moderately irritating. Rabbit

Serious eye damage/irritation

Serious eye Slightly irritating. Rabbit

damage/irritation

Skin sensitisation

**Skin sensitisation** Sensitising. Guinea pig

Germ cell mutagenicity

**Genotoxicity - in vitro**No specific test data are available.

Carcinogenicity

**Carcinogenicity** No specific test data are available.

Reproductive toxicity

**Reproductive toxicity -** No specific test data are available.

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 No information available.

Aspiration hazard

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

TRIS-2,4,6-(DIMETHYLAMINOMETHYL)PHENOL

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 2,169.0

mg/kg)

Species Rat

Acute toxicity - inhalation

Notes (inhalation LC50) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Method: OECD 404, Rabbit Corrosive

Serious eye damage/irritation

Serious eye Rabbit Causes serious eye irritation.

damage/irritation
Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Mild dermatitis, allergic skin

rash.

## Permabond ET5429B

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative.

Genotoxicity - in vivo No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 15 mg/kg/day, Oral, Rat F1

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: >150 mg/kg/day, Oral, Rat

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 No information available.

3,3'-OXYBIS(ETHYLENEOXY)BIS(PROPYLAMINE)

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

3,160.0

**Species** Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,150.0

mg/kg)

**Species** Rat

Acute toxicity - inhalation

Notes (inhalation LC50) No information available.

Skin corrosion/irritation

Corrosive to skin. Skin corrosion/irritation

Serious eye damage/irritation

Highly irritating. Serious eye

damage/irritation Skin sensitisation

No information available.

Skin sensitisation Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Carcinogenicity

Carcinogenicity No information available.

## Permabond ET5429B

Reproductive toxicity

Screening - NOAEL 600 mg/kg/day, Oral, Rat P Reproductive toxicity -

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 No information available.

2-PIPERAZIN-1-YLETHYLAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,500.0

**Species** Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50 866.0

mg/kg)

**Species** Rabbit

Acute toxicity - inhalation

Notes (inhalation LC50) No information available.

Skin corrosion/irritation

Animal data Severe skin irritation. Rabbit

Serious eye damage/irritation

Serious eye Highly irritating. Rabbit

damage/irritation Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

Screening - NOAEC 8000 mg/l, Oral, Rat P

fertility

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 75 mg/kg/day, Oral, Rabbit

Specific target organ toxicity - single exposure

## Permabond ET5429B

**STOT - single exposure** No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

**Aspiration hazard** No information available.

## SECTION 12: Ecological information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

12.1. Toxicity

**Toxicity** The mixture is classified based on the available hazard information for the ingredients as

defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the

substances listed under Section 3 is provided in the following.

## Ecological information on ingredients.

## **POLYAMIDOAMINE**

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 7.07 mg/l, Danio rerio (Zebrafish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 24 hours: 9.72 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 4.34 mg/l, Pseudokirchneriella subcapitata

Acute toxicity -

microorganisms

EC₅o, 3 hours: 384 mg/l, Activated sludge

## **ATBN POLYMER**

Acute aquatic toxicity

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: > 1000 mg/l, Algae

#### TRIS-2,4,6-(DIMETHYLAMINOMETHYL)PHENOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 175 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 96 hours: 718 mg/l, Palaemonetes vulgaris

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 84 mg/l, Scenedesmus subspicatus

Acute toxicity -

microorganisms

NOEC, 28 days: 2 mg/l, Activated sludge

## 3,3'-OXYBIS(ETHYLENEOXY)BIS(PROPYLAMINE)

## Permabond ET5429B

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 215 - < 464 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 218 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: > 500 mg/l, Scenedesmus subspicatus

Acute toxicity -

microorganisms

EC<sub>50</sub>, 17 hours: 221.9 mg/l, Pseudomonas putida

## 2-PIPERAZIN-1-YLETHYLAMINE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)

LC<sub>50</sub>, 96 hours: 2190 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 58 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata

## 12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

#### Ecological information on ingredients.

# 3,3'-OXYBIS(ETHYLENEOXY)BIS(PROPYLAMINE)

**Biodegradation** Water - Degradation 10%: < 60 days

## 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

12.4. Mobility in soil

**Mobility** No data available.

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

## 12.6. Other adverse effects

Other adverse effects None known.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

General information Waste disposal should be in accordance with existing Community, National and local

regulations Empty containers may contain product residue; follow SDS and label warnings

even after they have been emptied.

Disposal methods Do not empty into drains, dispose of this material and its container at hazardous or special

waste collection point.

## Permabond ET5429B

Waste class 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous

substances.

## SECTION 14: Transport information

#### 14.1. UN number

2735

#### 14.2. UN proper shipping name

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains 3,3'-Oxybis(ethyleneoxy)bis(propylamine))

## 14.3. Transport hazard class(es)

8

#### Transport labels



## 14.4. Packing group

Ш

#### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

# 14.6. Special precautions for user

EmS F-A, S-B

Tunnel restriction code (E)

# 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation,

Authorisation and Restriction of Chemicals (REACH)

**Guidance** Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131.

#### 15.2. Chemical safety assessment

## Permabond ET5429B

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision date 09/07/2020

Revision 4

Supersedes date 29/05/2015

Hazard statements in full H302 Harmful if swallowed.

H311 Toxic 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.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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.