

# SAFETY DATA SHEET Permabond TA4207B

#### 1. Identification

Product identifier

Product name Permabond TA4207B

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 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

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Classification and Labeling of Chemicals (GHS).

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Label elements

Hazard symbols





Signal word Danger

Hazard statements H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

## Permabond TA4207B

#### Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapor/ spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

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

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.

P312 Call a poison center/ doctor if you feel unwell.
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.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

#### Contains

METHYL METHACRYLATE, 2-HYDROXYETHYL METHACRYLATE

#### Other hazards

Does not decompose when used and stored as recommended.

# 3. Composition/information on ingredients

## **Mixtures**

# METHYL METHACRYLATE 60-100%

CAS number: 80-62-6

# Classification

Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335

#### 2-HYDROXYETHYL METHACRYLATE

10-30%

CAS number: 868-77-9

#### Classification

Skin Irrit. 2 - H315

Eye Irrit. 2A - H319

Skin Sens. 1 - H317

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3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-

5-10%

**PROPYLPYRIDINE** 

CAS number: 34562-31-7

REACH registration exemption - < 1 tonne

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319

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

providing appropriate protections.

#### 4. First-aid measures

#### Description of first aid measures

**Inhalation** Move affected person to fresh air at once. 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 Wash with plenty of soap and water. Remove contaminated clothing immediately and wash

skin with soap and water. Wash clothing and clean shoes thoroughly before reuse. Get

medical attention if irritation persists after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe

or persist.

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

**Inhalation** May cause respiratory system irritation. May cause drowsiness or dizziness.

**Ingestion** May cause irritation.

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

**Eye contact** Causes serious eye irritation.

# Indication of immediate medical attention and special treatment needed

**Notes for the doctor** No 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 Vapors are heavier than air and may travel along the floor and accumulate in the bottom of

containers. Vapors may be ignited by a spark, a hot surface or an ember.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Carbon dioxide (CO2). Carbon monoxide (CO). Irritating gases or vapors.

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#### 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** Avoid the spillage or runoff entering drains, sewers or watercourses.

## Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. Provide adequate ventilation. Absorb spillage with sand or

other inert absorbent. Place waste in labeled, sealed containers.

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** Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing.

Wash hands thoroughly after handling. Keep container tightly sealed when not in use. Do not eat, drink or smoke when using this product. All handling should only take place in well-

ventilated areas.

## Conditions for safe storage, including any incompatibilities

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

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store

away from incompatible materials (see Section 10). Protect from light.

Specific end uses(s)

Specific end use(s) Adhesive.

## 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

#### METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 205 mg/m<sup>3</sup> Short-term exposure limit (15-minute): ACGIH 100 ppm 410 mg/m<sup>3</sup>

A4, DSens

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 410 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

DSens = Dermal sensitizer.

OSHA = Occupational Safety and Health Administration.

Ingredient comments WEL = Workplace Exposure Limits

**Exposure controls** 

controls

Appropriate engineering

Observe any occupational exposure limits for the product or ingredients. Provide adequate

general and local exhaust ventilation.

**Eye/face protection** Chemical splash goggles or face shield.

**Hand protection** It is recommended that chemical-resistant, impervious gloves are worn.

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Other skin and body

protection

Wear appropriate clothing to prevent skin contamination.

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. Ensure all

respiratory protective equipment is suitable for its intended use and is NIOSH approved.

Organic vapor filter.

## 9. Physical and chemical properties

## Information on basic physical and chemical properties

**Appearance** Opaque liquid.

Color Yellow.

Odor Acrylic

Odor threshold Not available.

**pH** Not relevant.

Melting point Not available.

Initial boiling point and range Not applicable.

Flash point 11°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 1.0 @ 25°C

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

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity ~1,300 cP @ 23°C

Oxidizing properties Not available.

Other information Not relevant.

## 10. Stability and reactivity

Reactivity Not available

**Stability** Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Reactions with the following materials may generate heat: Amines. Organic

peroxides/hydroperoxides.

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**Conditions to avoid** Avoid heat, flames and other sources of ignition.

Materials to avoid Oxidizing agents. Reducing agents. Acids. Peroxides.

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Irritating gases or vapors.

#### 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** Causes skin irritation.

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

Genotoxicity - in vivo Based 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 -

development

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

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Target organs Respiratory tract

Specific target organ toxicity - repeated exposure

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

**Inhalation** May cause respiratory system irritation. May cause drowsiness or dizziness.

**Ingestion** May cause irritation.

Skin Contact May cause allergic skin reaction.

**Eye contact** Causes serious eye irritation.

Acute and chronic health

hazards

Causes serious eye irritation. Causes skin irritation.

Route of exposure Skin and/or eye contact Inhalation

Target Organs Respiratory tract Skin Eyes

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## Toxicological information on ingredients.

#### METHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

5,000.0

mg/kg)

**Species** Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,000.0

mg/kg)

**Species** Rat

Acute toxicity - inhalation

Acute toxicity inhalation

29.8

(LC50 vapours mg/l)

**Species** Rat

Skin corrosion/irritation

Not irritating. Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Respiratory sensitization

Respiratory sensitization Mouse: Sensitizing.

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitro Inconclusive.

Genotoxicity - in vivo This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity CMR: no

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

No evidence of reproductive toxicity in animal studies.

fertility

Reproductive toxicity -

No evidence of reproductive toxicity in animal studies. non-teratogenic, not

development embryotoxic

Specific target organ toxicity - single exposure

**Target organs** Respiratory tract Irritation.

Specific target organ toxicity - repeated exposure

**Target organs** No specific target organs known.

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Aspiration hazard

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

2-HYDROXYETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

5.000.0

mg/kg)

**Species** Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,000.0

mg/kg)

**Species** Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data Erythema/eschar score: Very slight erythema - barely perceptible (1). Not irritating.

Serious eye damage/irritation

Serious eye

Moderately irritating.

damage/irritation

Respiratory sensitization

Respiratory sensitization No information available.

Skin sensitization

Skin sensitization Guinea pig maximization test (GPMT) - Guinea pig: Sensitizing.

Germ cell mutagenicity

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

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity -

Screening - NOAEL >=1000 mg/kg/day, Oral, Rat F1

Reproductive toxicity -

development

fertility

Developmental toxicity: - NOAEL: >=1000 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 No specific test data are available.

Aspiration hazard

Aspiration hazard Not applicable.

## Permabond TA4207B

# 12. Ecological information

**Ecotoxicity** 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) 1993 UN No. (ICAO) 1993 UN No. (DOT) UN1993

#### UN proper shipping name

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (contains Methylmethacrylate)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (contains Methylmethacrylate)

Proper shipping name (DOT) FLAMMABLE LIQUID, N.O.S. (contains Methylmethacrylate)

## Transport hazard class(es)

DOT hazard class 3

IMDG Class 3

ICAO class/division 3

# Transport labels



## Packing group

IMDG packing group II
ICAO packing group II

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

## Permabond TA4207B

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

The following ingredients are listed:

METHYL METHACRYLATE

#### SARA 313 Emission Reporting

The following ingredients are listed:

METHYL METHACRYLATE

#### **US State Regulations**

#### California Proposition 65 Carcinogens and Reproductive Toxins

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

ANILINE

#### **Inventories**

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### **US-TSCA**

All the ingredients are listed or exempt.

#### 16. Other information

Classification abbreviations

and acronyms

Flam. Liq. = Flammable liquid Eye Dam. = Serious eye damage

Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation

STOT SE = Specific target organ toxicity-single exposure

Revision date 3/26/2020

Revision 1

Hazard statements in full H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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.