

# SAFETY DATA SHEET Permabond HH190

# 1. Identification

**Product identifier** 

Product name Permabond HH190

Recommended use of the chemical and restrictions on use

**Application** Adhesive. Sealant.

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

Label elements

Hazard symbols



Signal word Warning

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

#### Permabond HH190

**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.
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.

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.

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Contains 2-HYDROXYETHYL METHACRYLATE

# 3. Composition/information on ingredients

#### **Mixtures**

#### 2-HYDROXYETHYL METHACRYLATE

10-30%

CAS number: 868-77-9

#### Classification

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

#### N,N-DIMETHYL-PARA-TOLUIDINE

<1%

CAS number: 99-97-8

#### Classification

Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Not relevant.

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

medical attention.

Skin Contact Wash skin thoroughly with soap and water. Get medical attention if irritation persists after

washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention if any discomfort continues.

# Most important symptoms and effects, both acute and delayed

#### Permabond HH190

**Skin contact** The product contains a small amount of sensitizing substance.

**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** Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

onsulable extinguishing

Water.

media

# Special hazards arising from the substance or mixture

**Hazardous combustion** Thermal decomposition or combustion products may include the following substances:

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

Advice for firefighters

Special protective equipment

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

for firefighters 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 discharge into drains.

# Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste

disposal containers and seal securely.

Reference to other sections For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section

13.

#### 7. Handling and storage

# Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists. 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 and cool place.

Specific end uses(s)

**Usage description** Adhesive. Sealant.

# 8. Exposure controls/Personal protection

#### **Exposure controls**

controls

Appropriate engineering

No specific ventilation requirements. Good general ventilation should be adequate to control

worker exposure to airborne contaminants.

**Eye/face protection** Tight-fitting safety glasses.

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Hand protection Wear protective gloves made of the following material: Nitrile rubber. Viton rubber (fluoro

rubber).

Other skin and body

protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

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.

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

Appearance Paste.

Color Purple.

Odor Acrylic

Odor thresholdNot available.pHNot relevant.Melting pointNot available.Initial boiling point and rangeNot applicable.

Flash point >100°C

Evaporation rateNot available.Evaporation factorNot available.Flammability (solid, gas)Not applicable.

Upper/lower flammability or

explosive limits

Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.1

Bulk density Not available.

Solubility(ies) Slightly soluble in water. Miscible with the following materials: acetone

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity ≈300000 mPa s @ 23°C Thixotropic

Oxidizing properties Not available.

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.

**Stability** Stable under the prescribed storage conditions.

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Possibility of hazardous

reactions

There are no known reactivity hazards associated with this product. Polymerization may occur

at elevated temperature or in the presence of incompatible materials

**Conditions to avoid** Avoid the absence of air, and metal contamination.

Materials to avoid Metals and their salts. Free radical initiators. Strong oxidizing agents. Strong reducing agents.

Alkalis.

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances:

Carbon monoxide (CO). Carbon dioxide (CO2).

#### 11. Toxicological information

#### Information on toxicological effects

**Toxicological effects** Information given is based on data of the components and of similar products. Avoid breathing

vapours. Avoid contact with eyes. Avoid contact with skin.

Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

Respiratory sensitization

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

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.

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.

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.

**Inhalation** May cause respiratory system irritation.

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

**Skin Contact** Prolonged and frequent contact may cause redness and irritation.

**Eye contact** Causes serious eye irritation.

Route of exposure Skin and/or eye contact

Toxicological information on ingredients.

# 2-HYDROXYETHYL METHACRYLATE

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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 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 -

fertility

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

Reproductive toxicity -

development

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.

N,N-DIMETHYL-PARA-TOLUIDINE

Acute toxicity - oral

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Acute toxicity oral (LD₅o

mg/kg)

139.0

3.19

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

Skin corrosion/irritation

Animal data Method: OECD 404, Rabbit Moderately irritating.

Serious eye damage/irritation

Serious eye

Method: OECD 405, Rabbit Moderately irritating.

damage/irritation

Skin sensitization

Skin sensitization Not sensitizing.

Germ cell mutagenicity

**Genotoxicity - in vitro**Ames test This substance has no evidence of mutagenic properties.

Carcinogenicity

**Carcinogenicity** No information available.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - LOEL 72.977 mg/kg/day, , Rat F2

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard Not available.

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.

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**Disposal methods**Dispose of according to Federal, State/Provincial and local regulations. Refer to section 8

before handling.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DOT).

**UN Number** 

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name

(International)

UN No. (DOT)

Not applicable.

Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

**Transport Labels** 

No transport warning sign required.

(International)

**DOT transport labels** 

No transport warning sign required.

Packing group

Packing group (International) Not applicable.

**DOT packing group** Not applicable.

**Environmental hazards** 

**Environmentally Hazardous Substance** 

No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

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

1,2-BENZISOTHIAZOL-3(2H)-ONE 1,1-DIOXIDE Final CERCLA RQ: 100(45.4) pounds (Kilograms)

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#### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

# SARA 313 Emission Reporting

None above reporting limits

1,2-BENZISOTHIAZOL-3(2H)-ONE 1,1-DIOXIDE

1.0 %

# SARA (311/312) Hazard Categories

Acute Chronic

# **US State Regulations**

#### California Proposition 65 Carcinogens and Reproductive Toxins

This product contains a chemical known to the state of California to cause cancer.

#### 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

and acronyms

Eye Irrit. = Eye irritation

Skin Irrit. = Skin irritation

Skin Sens. = Skin sensitisation

Revision date 10/15/2020

Revision 6

Supersedes date 10/1/2018

Hazard statements in full H301 Toxic if swallowed.

H311 Toxic in contact with skin. H315 Causes skin irritation.

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

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

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.