



SAFETY DATA SHEET Permabond HL138

1. Identification

Product identifier

Product name Permabond HL138

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

Pictogram



Signal word Warning

Hazard statements H315 Causes skin irritation.

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

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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.

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. P314 Get medical advice/ attention if you feel unwell.

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.

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

governmental regulations.

Contains 2-HYDROXYETHYL METHACRYLATE, ETHYLENE DIMETHACRYLATE

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

CUMENE HYDROPEROXIDE

<1%

CAS number: 80-15-9

Classification

Org. Perox. E - H242
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335
STOT RE 2 - H373
Not relevant.

ETHYLENE DIMETHACRYLATE

<1%

CAS number: 97-90-5

Classification

Skin Sens. 1 - H317 STOT SE 3 - H335

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

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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 immediately.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention promptly if symptoms occur 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

Inhalation May cause respiratory system irritation.

Ingestion May cause irritation.

Skin contact Skin irritation.

Eye contact Irritating to eyes.

Indication of immediate medical attention and special treatment needed

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

Water.

Special hazards arising from the substance or mixture

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

products and unknown hydrocarbons.

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. For waste disposal, see section 13.

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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 closed original container at temperatures between 44°F and 77°F. Never return

unused material to storage receptacle.

Specific end uses(s)

Usage description Adhesive. Sealant.

8. Exposure Controls/personal protection

Ingredient comments WEL = Workplace Exposure Limits

Exposure controls

Appropriate engineering

controls

No specific ventilation requirements. Use positive down draft exhaust ventilation if general

ventilation is insufficient to maintain vapor concentrations below established exposure limits.

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Liquid.

Color Green.

Odor Acrylic

Odor threshold Not available.

pH Not relevant.

Melting point Not available.

Initial boiling point and range Not 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.

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Relative density 1.1

Bulk density Not available.

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

Partition coefficientNot available.Auto-ignition temperatureNot available.Decomposition TemperatureNot available.

Viscosity ≈300 mPa s @ 23°C

Oxidizing properties Not available.

Other information Not relevant.

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

10. Stability and reactivity

Reactivity Not available

Stability Stable at normal ambient temperatures.

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 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.

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 vitroBased on available data the classification criteria are not met.

Carcinogenicity

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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.

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 Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation Vapors may irritate throat/respiratory system.

Ingestion May cause irritation.

Skin Contact Irritating.

Eye contact Irritating.

Route of exposure Skin and/or eye contact

Toxicological information on ingredients.

2-HYDROXYETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 5,000.0

mg/kg)

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 5,000.0

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 Mo

damage/irritation

Moderately irritating.

Respiratory sensitization

Respiratory sensitization No information available.

Skin sensitization

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

Germ cell mutagenicity

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

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.

CUMENE HYDROPEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

328.0

Species Rat

ATE oral (mg/kg) 328.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,200.0

mg/kg)

Species Rat

ATE dermal (mg/kg) 1,200.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ dust/mist mg/l)

1.37

Species Rat

0.5 ATE inhalation

(dusts/mists mg/l)

Skin corrosion/irritation

Animal data Highly irritating.

Serious eye damage/irritation

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Serious eye

Irritating to eyes.

damage/irritation

Skin sensitization

Skin sensitization Not sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro Positive.

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

Carcinogenicity

Carcinogenicity CMR: No

Reproductive toxicity

Reproductive toxicity -

fertility

No specific test data are available.

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: ≥100 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 Toxic: danger of serious damage to health by prolonged exposure through

inhalation.

Aspiration hazard

Aspiration hazard No specific test data are available.

ETHYLENE DIMETHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

8,300.0

mg/kg)

Rat **Species**

8,300.0 ATE oral (mg/kg)

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rat

2,000.1 ATE dermal (mg/kg)

Acute toxicity - inhalation

No information available. Notes (inhalation LC50)

Skin corrosion/irritation

Animal data Method: OECD 405, Rabbit Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation

Not irritating.

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Positive.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity NOAEC >= 2.05 mg/l, Inhalation, Rat

Reproductive toxicity

Reproductive toxicity -

fertility

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

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 500 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 Not available.

12. Ecological Information

Toxicity No data available.

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

14. Transport information

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

(IMDG, IATA, DOT).

UN Number

Not applicable.

UN No. (DOT) Not applicable.

UN proper shipping name

Not applicable.

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Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

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

CUMENE HYDROPEROXIDE

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

SARA 313 Emission Reporting

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

CUMENE HYDROPEROXIDE

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

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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

STOT RE = Specific target organ toxicity-repeated exposure

Revision date 1/29/2018

Revision 5

Supersedes date 5/5/2015

Hazard statements in full H242 Heating may cause a fire.

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.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

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.