

SAFETY DATA SHEET Permabond TA4522A

1. Identification

Product identifier

Product name Permabond TA4522A

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

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Classification and Labeling of Chemicals (GHS).

Physical hazards Not Classified

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

H373

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. H335 May cause respiratory irritation.

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

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Precautionary statements P260 Do not breathe vapor/ spray.

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.

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.
P314 Get medical advice/ attention 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.

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

P405 Store locked up.

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

Contains BENZYL METHACRYLATE, ISOBORNYLMETHACRYLATE, CUMENE HYDROPEROXIDE

Other hazards

None under normal conditions.

3. Composition/information on ingredients

Mixtures

BENZYL METHACRYLATE 30-60%

CAS number: 2495-37-6

Classification

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

STOT SE 3 - H335

ISOBORNYLMETHACRYLATE

10-30%

CAS number: 7534-94-3

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335 Not relevant.

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CUMENE HYDROPEROXIDE 1-5%

CAS number: 80-15-9

Classification

Not relevant.

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

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 the exposed person to fresh air. When breathing is difficult, properly trained personnel

may assist affected person by administering oxygen. If breathing stops, provide artificial

respiration. Get medical attention.

Ingestion Do not induce vomiting unless under the direction of medical personnel. Never give anything

by mouth to an unconscious person. Get medical attention.

Skin Contact Wash skin thoroughly with soap and water. Take off contaminated clothing and wash it before

reuse. Get medical attention.

Eye contact Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical

attention.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation.

Ingestion May cause irritation.

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

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

Special hazards arising from the substance or mixture

Hazardous combustion Burning pro-

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

and unknown hydrocarbons.

Advice for firefighters

products

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for firefighters

Special protective equipment 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 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.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Keep container

tightly sealed when not in use. Wash hands thoroughly after handling.

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)

Adhesive. Sealant. Usage description

8. Exposure controls/Personal protection

Exposure controls

Appropriate engineering

controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Observe any occupational exposure

limits for the product or ingredients.

Eye/face protection Use safety goggles and face shield in case of splash risk.

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.

Respiratory protection No specific recommendations. 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 Liquid. Color White. Odor Acrylic

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Odor threshold Not available.

pH Not relevant.

Melting point Not available.

Initial boiling point and range Not applicable.

Flash point >93°C (199.94°F)

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 1.1 @ 23°C

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 ~3,600 cP @ 23°C

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 at normal ambient temperatures and when used as recommended.

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 alkalis. Strong reducing 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

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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 vivo

Genotoxicity - in vitroBased 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

Based on available data the classification criteria are not met.

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 May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

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

Target organs Lungs

Aspiration hazard

Aspiration hazard 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 Causes skin irritation.

Eye contact Irritating to eyes.

Acute and chronic health

hazards

May cause respiratory system irritation. This product may cause skin and eye irritation.

Route of exposure Inhalation Skin and/or eye contact

Toxicological information on ingredients.

BENZYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 3,980.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

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Species Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data Erythema/eschar score: Very slight erythema - barely perceptible (1). Fully

reversible within 72 hours. Slightly irritating.

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitroGene mutation: Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

No evidence of reproductive toxicity in animal studies.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 500 mg/kg, Oral, Rat

Aspiration hazard

Aspiration hazard Not available.

ISOBORNYLMETHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

2,000.1

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 3,000.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data Erythema/eschar score: Well defined erythema (2). Fully reversible within 7 days.

Serious eye damage/irritation

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Serious eye

damage/irritation

Rabbit Not irritating.

Skin sensitization

Skin sensitization Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitroGene mutation: Negative.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 500 mg/kg/day, Oral, Rat F1

Reproductive toxicity -

development

Developmental toxicity: - NOEC: >500 mg/kg/day, Oral, Rat

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 applicable.

CUMENE HYDROPEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD50

328.0

1.37

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,200.0

mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 dust/mist mg/l)

Species Rat

Skin corrosion/irritation

Animal data Highly irritating.

Serious eye damage/irritation

Serious eye Ir

damage/irritation

Irritating to eyes.

Skin sensitization

Skin sensitization Not sensitizing.

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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.

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 methods Dispose 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

UN No. (International) Not applicable.
UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name

Not applicable.

(International)

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

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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)

The following ingredients are listed:

CUMENE HYDROPEROXIDE

CUMENE

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

SARA 313 Emission Reporting

The following ingredients are listed:

CUMENE HYDROPEROXIDE

SARA (311/312) Hazard Categories

Acute Chronic

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed: Cancer - www.p65warnings.ca.gov

CUMENE

Inventories

Permabond TA4522A

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 SE = Specific target organ toxicity-single exposure

Revision date 1/21/2022

Revision 1

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.