

SAFETY DATA SHEET Permabond TA430

1. Identification

Product identifier

Product name Permabond TA430

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 Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

Label elements

Pictogram





Signal word Danger

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statements P261 A

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. P310 Immediately call a poison center/ doctor. P312 Call a poison center/ doctor 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. 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.

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

governmental regulations.

Contains

BENZYL METHACRYLATE, METHACRYLIC ACID, EPOXY RESIN (Number average MW <=

700)

Other hazards

STOT SE 3 - H335

None under normal conditions.

3. Composition/information on ingredients

Mixtures

BENZYL METHACRYLATE	60-100%
CAS number: 2495-37-6	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1 - H317	

METHACRYLIC ACID	1-5%
CAS number: 79-41-4	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 3 - H311	
Acute Tox. 4 - H332	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	

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EPOXY RESIN (Number average MW <= 700)

1-5%

CAS number: 25068-38-6

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 Not relevant.

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.

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

Composition comments

Exact percentage is a trade secret. Concentration range is provided to assist users in

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 damage.

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 Water spray, foam, dry powder or carbon dioxide.

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 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 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 Keep container tightly closed, in a cool, well ventilated place. Keep container dry. 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

Control parameters

Occupational exposure limits

METHACRYLIC ACID

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 70 mg/m³ ACGIH = American Conference of Governmental Industrial Hygienists.

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.

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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 Transparent. Liquid.

Color Amber.

Odor Acrylic

Odor threshold Not available.

pH Not relevant.

Melting pointNot available.Initial boiling point and rangeNot applicable.

Flash point >93°C (199.94°F)

Evaporation rate Not available.

Upper/lower flammability or

Flammability (solid, gas)

explosive limits

Not available.

Not applicable.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.1

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 ≈62000 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 at normal ambient temperatures and when used as recommended.

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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 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

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Risk of serious damage to eyes.

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.

Genotoxicity - in vivoBased 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

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H335 May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

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

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.

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Skin Contact Causes skin irritation.

Eye contact May cause serious eye damage.

Acute and chronic health

hazards

May cause sensitisation by skin contact. Causes skin irritation Causes eye irritation. May

cause respiratory system irritation.

Route of exposure Skin and/or eye contact Inhalation

Target Organs Skin Eyes Respiratory tract

Toxicological information on ingredients.

BENZYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

3,980.0

mg/kg)

Rat **Species**

ATE oral (mg/kg) 3,980.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rat

2,000.1 ATE dermal (mg/kg)

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

damage/irritation

Skin sensitization

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

Not irritating.

Germ cell mutagenicity

Genotoxicity - in vitro Gene 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

Not available. **Aspiration hazard**

METHACRYLIC ACID

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

1,320.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,000.0

mg/kg)

Rabbit **Species**

ATE dermal (mg/kg) 1,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

7.1

Species Rat

ATE inhalation (vapours

mg/l)

11.0

Skin corrosion/irritation

Animal data Dose: Method: OECD 404, 3 minutes, Rabbit Corrosive.

Serious eye damage/irritation

Serious eye damage/irritation Method: OECD 405, Rabbit Corrosive.

Respiratory sensitization

Respiratory sensitization Guinea pig: Not sensitizing. Method: various test systems

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity CMR: no

Reproductive toxicity

Reproductive toxicity -

No evidence of reproductive toxicity in animal studies.

fertility

Reproductive toxicity -

development

Non-teratogenic, not embryotoxic

Specific target organ toxicity - single exposure

Target organs Respiratory tract Irritating.

Specific target organ toxicity - repeated exposure

Target organs No specific target organs known.

Aspiration hazard

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

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

Acute toxicity oral (LD₅o

11,400.0

mg/kg)

Species Rat

ATE oral (mg/kg) 11,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,000.1

Acute toxicity - inhalation

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

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Animal data Edema score: Very slight oedema - barely perceptible (1).

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Respiratory sensitization

Respiratory sensitization No specific test data are available.

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitroConclusive data but not sufficient for classification.

Carcinogenicity

Carcinogenicity Conclusive data but not sufficient for classification.

Reproductive toxicity

Reproductive toxicity -

Fertility - NOAEL 750 mg/kg/day, Oral, Rat

fertility

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat

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Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

Aspiration hazard

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

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)

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Species Rat

ATE dermal (mg/kg) 1,200.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ dust/mist mg/l)

1.37

Species Rat

ATE inhalation 0.5

(dusts/mists mg/l)

Skin corrosion/irritation

Animal data Highly irritating.

Serious eye damage/irritation

Serious eye

Irritating to eyes.

damage/irritation

Skin sensitization

Skin sensitization Not sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro Positive.

Genotoxicity - in vivoThis substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity CMR: No

Reproductive toxicity

Reproductive toxicity -

No specific test data are available.

fertility

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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

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

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.

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

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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

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

SARA 313 Emission Reporting

None above reporting limits

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 Eye Dam. = Serious eye damage

and acronyms Skin Irrit. = Skin irritation

Skin Sens. = Skin sensitisation

STOT SE = Specific target organ toxicity-single exposure

Revision date 1/31/2018

Revision 2

Supersedes date 5/5/2015

Hazard statements in full H242 Heating may cause a fire.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

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.

H332 Harmful 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.