

SAFETY DATA SHEET Permabond UV630

1. Identification

Product identifier

Product name Permabond UV630

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 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 1B -

H360Df

Label elements

Hazard symbols







Signal word

Danger

Hazard statements H302 Harmful if swallowed.

H315 Causes skin irritation.

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

H360Df May damage the unborn child. Suspected of damaging fertility.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapor/ spray.

P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.

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.

P308+P313 If exposed or concerned: Get medical advice/ attention.

P310 Immediately call a poison center/ doctor.

P330 Rinse mouth.

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.

P405 Store locked up.

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

governmental regulations.

Contains

TETRAHYDROFURFURYL METHACRYLATE, ISOBORNYL ACRYLATE, N,N-DIMETHYLACRYLAMIDE, 2-HYDROXYETHYL METHACRYLATE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE, METHYL METHACRYLATE

Other hazards

None under normal conditions.

3. Composition/information on ingredients

Mixtures

TETRAHYDROFURFURYL METHACRYLATE

10-30%

CAS number: 2455-24-5

Classification

Skin Sens. 1 - H317 Repr. 1B - H360D Not relevant.

ISOBORNYL ACRYLATE

10-30%

CAS number: 5888-33-5

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Not relevant.

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N,N-DIMETHYLACRYLAMIDE

CAS number: 2680-03-7

REACH registration exemption - < 1 tonne

Classification

Acute Tox. 3 - H301 Acute Tox. 3 - H311 Eye Dam. 1 - H318

2-HYDROXYETHYL METHACRYLATE

5-10%

10-30%

CAS number: 868-77-9

Classification

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

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE

1-5%

OXIDE

CAS number: 75980-60-8

Classification

Skin Sens. 1B - H317 Repr. 2 - H361f Not relevant.

METHYL METHACRYLATE

<1%

CAS number: 80-62-6

Classification

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

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. Get medical attention if symptoms are severe or

persist.

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

by mouth to an unconscious person. 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. Wash contaminated clothing before

reuse.

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Eye contact Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of

water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical

attention.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation.

Ingestion Harmful if swallowed.

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,

and unknown hydrocarbons.

Advice for firefighters

products

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)

Usage description Adhesive. Sealant.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): ACGIH 50 ppm 205 mg/m³ Short-term exposure limit (15-minute): ACGIH 100 ppm 410 mg/m³ 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.

Exposure controls

Appropriate engineering

Provide adequate general and local exhaust ventilation. 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

Color

controls

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).

Colorless.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Liquid.

Odor Acrylic

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

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

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

Viscosity ≈250 mPa s @ 23°C

Oxidizing properties Not available.

Other information Not relevant.

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

10. Stability and reactivity

Stability Stable at normal ambient temperatures and when used as recommended. Polymerizes when

heated.

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 Do not store near heat sources or expose to high temperatures. Protect against direct

sunlight.

Materials to avoid Strong oxidizing agents. 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

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Reproductive toxicity - fertility Contains a substance/a group of substances which may damage fertility.

Reproductive toxicity -

Contains a substance/a group of substances which may damage the unborn child.

development

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

In high concentrations, vapors may irritate throat and respiratory system and cause coughing.

Ingestion Harmful if swallowed.

Skin Contact Irritating to skin.

Eye contact Causes serious eye damage.

Acute and chronic health

May cause serious eye damage. Causes skin irritation. May cause skin sensitization or

hazards

allergic reactions in sensitive individuals.

Route of exposure Oral Skin and/or eye contact

Toxicological information on ingredients.

TETRAHYDROFURFURYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

4,000.0

mg/kg)

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Skin sensitization

Skin sensitization Sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity -

Screening - NOAEL 120 mg/kg/day, Oral, Rat F1

fertility

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure NOAEL 300 mg/kg, Oral, Rat

Aspiration hazard

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

ISOBORNYL ACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

5,000.0

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

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye Not irritating.

damage/irritation

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitro Genome mutation: Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

Two-generation study - NOEC 0.092 mg/l, Inhalation, Rat P

fertility

Reproductive toxicity -

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

development

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 No information available.

N,N-DIMETHYLACRYLAMIDE

Acute toxicity - oral

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Acute toxicity oral (LD₅o

mg/kg)

216.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 519.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation 3.16

(LC50 vapours mg/l)

Species Rat

Skin corrosion/irritation

Animal data Method: OECD 404, Rabbit Not irritating.

Serious eye damage/irritation

Serious eye Method: OECD 405, Rabbit Causes serious eye damage.

damage/irritation

Respiratory sensitization

Respiratory sensitization No data available.

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitroGene mutation: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity No data available.

Reproductive toxicity

Reproductive toxicity - Screening - NOAEL 30 mg/kg/day, Oral, Rat F1

fertility

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 No information available.

2-HYDROXYETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,000.0

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Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 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 vitroConclusive 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.

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

5,000.0

mg/kg)

Species Rat

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rat

Acute toxicity - inhalation

Notes (inhalation LC50) No information available.

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye

damage/irritation

Not irritating.

Skin sensitization

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

Germ cell mutagenicity

Genotoxicity - in vitroGene mutation: Negative.

Carcinogenicity

Carcinogenicity No data available.

Reproductive toxicity

Reproductive toxicity -

Possible risk of adverse reproductive effects.

Reproductive toxicity -

development

fertility

Developmental toxicity: - NOAEL: 150 mg/kg, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 50 mg/kg/day, Oral, Rat

Aspiration hazard

Aspiration hazard No data 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

Sea transport notes Applies only to inner containers >5 litres. See 2.10.2.7 of the IMDG code.

Air transport notes Applies only to inner containers >5 liters. See SP A197 (375)

DOT transport notes Applies only to inner containers >5 liters. See CFR 49173.155 and 172.102.173

UN Number

UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (DOT) UN3082

UN proper shipping name

Proper shipping name (International)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains Isobornyl

Acrylate)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Isobornyl

Acrylate)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Isobornyl

Acrylate)

Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (contains Isobornyl

Acrylate)

Transport hazard class(es)

DOT hazard class 9
DOT hazard label 9
IMDG Class 9

ICAO class/division 9

Transport labels



DOT transport labels



Packing group

IMDG packing group III
ICAO packing group III
DOT packing group III

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

DOT reportable quantity Not applicable.

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 does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm

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 Repr. = Reproductive toxicity

Revision date 3/25/2021

Revision 2

Supersedes date 1/31/2018

Hazard statements in full H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360D May damage the unborn child.

H360Df May damage the unborn child. Suspected of damaging fertility.

H361f Suspected of damaging fertility.

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.