

Permabond®

Engineering Adhesives

SAFETY DATA SHEET

Permabond 920

1. Identification

Product identifier

Product name Permabond 920

Recommended use of the chemical and restrictions on use

Application Adhesive

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 Flam. Liq. 4 - H227

Health hazards Not Classified

Label elements

Signal word Warning

Hazard statements H227 Combustible liquid.

Precautionary statements P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards

None under normal conditions.

3. Composition/information on ingredients

Mixtures

Composition comments None of the ingredients are required to be listed.

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4. First-aid measures

Description of first aid measures

Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
Ingestion	On contact, immediate bonding of mouth could occur. Do not induce vomiting. Get medical attention.
Skin Contact	On contact, immediate bonding of the skin will occur. No attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can be easily torn. Wash skin thoroughly with soap and water.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. If adhesive bonding occurs, do not force eyelids apart. Apply a pad soaked in warm water and allow the eyelids to separate. Get medical attention. Cured adhesive will not bond well to surface of eye, but corneal damage from abrasion may result.

Most important symptoms and effects, both acute and delayed

Inhalation	Irritation of nose, throat and airway.
Ingestion	On contact, immediate bonding of mouth could occur.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Irritating and may cause redness and pain.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	SKIN BONDING. Prise the skin apart slowly working from the edge of the bonded area. This can be eased by using warm soapy water. EYE BONDING. DO NOT force eyelids apart. Apply a pad soaked in warm water and allow the eye to separate itself.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
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Special hazards arising from the substance or mixture

Specific hazards	Cloths used to wipe up spills may cause rapid polymerization that could generate sufficient heat to ignite the cloth.
Hazardous combustion products	Trace amounts of toxic and/or irritating organic vapors may be generated. The use of breathing apparatus is recommended.

Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapors.
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	For personal protection, see Section 8. Provide adequate ventilation.
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Environmental precautions

Environmental precautions	Ventilate area. Prevent product from entering drains or waterways.
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Methods and material for containment and cleaning up

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Methods for cleaning up Small spills: wipe up with cloth. Immediately soak cloth with water to polymerize the adhesive. Caution! Cloth containing adhesive may undergo autoignition if not soaked with water. Large spills: flood area with water. When cured, remove film with a scraper.

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 Ensure adequate ventilation of the working area. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep away from fabric and paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors and cause thermal burns.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. Keep away from heat, sparks and open flame. Keep container closed when not in use.

Specific end uses(s)

Specific end use(s) Adhesive.

8. Exposure Controls/personal protection

Ingredient comments No exposure limits known for ingredient(s).

Exposure controls

Appropriate engineering controls Use positive down draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentrations below established exposure limits.

Eye/face protection Wear approved safety goggles. Use 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 Uniforms, coveralls, or a lab coat should be worn.

Respiratory protection No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Colorless.
Odor	Pungent. Irritating.
Odor threshold	1 - 2 ppm
pH	Not applicable.
Melting point	Not applicable.
Initial boiling point and range	>100°C @ 1013 hPa
Flash point	95°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

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Upper/lower flammability or explosive limits	Not available.
Vapor pressure	<0.5 mbar @ 25°C
Vapor density	Not applicable.
Relative density	1.1
Bulk density	Not applicable.
Solubility(ies)	Hardens in contact with water. Insoluble in water. Miscible with the following materials: acetone
Partition coefficient	Not applicable.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	≈90 mPa s @ 23°C
Volatile organic compound	<2 %, 20 grams/liter (Estimated)

10. Stability and reactivity

Reactivity	The product reacts with water and will generate heat.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Reactions with the following materials may generate heat: Water Alcohols. Alkalis. Amines.
Conditions to avoid	Do not add water directly to the product. It may cause a violent reaction.
Materials to avoid	Water. Amines. Alkalis. Alcohols.
Hazardous decomposition products	Toxic/Irritating fumes

11. Toxicological information

Information on toxicological effects

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

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

Skin sensitization

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

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.

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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 Based on available data the classification criteria are not met.

Inhalation

The product is considered to be a low hazard under normal conditions of use. May cause discomfort.

Ingestion

On contact, immediate bonding of mouth could occur.

Skin Contact

On contact, immediate bonding of the skin will occur. Prolonged skin contact may cause temporary irritation.

Eye contact

Prolonged and frequent contact may cause redness and irritation. On contact, will bond eyelids together. Vapours are lachrymatory.

Route of exposure

Ingestion Inhalation Skin and/or eye contact.

12. Ecological Information

Ecotoxicity

There are no data on the ecotoxicity of this product.

Bioaccumulative potential

Partition coefficient

Not applicable.

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

Sea transport notes

Not classified.

Air transport notes

Applies only to inner containers > 500ml. Inner packaging containing less than 500ml are unregulated for air transportation and may be shipped unrestricted. But inner packages containing more than 500ml meet the criteria of IATA 3.9.2.1 and are regulated. The "inner package" is the individual bottle, tube or drum, not the outer packaging such as a fiberboard box or carton containing many bottles.
Permabond 3g, 20gr, 1 ounce (28.4 gr), 1 pound (454gr) and 500ml, are not restricted for air transportation.

DOT transport notes

This product is not regulated for road transportation in accordance with 49 CFR Exceptions. Please note that Cyanoacrylates are not restricted for domestic ground transportation in non bulk containers. (The DOT defines a bulk container as a "Package" containing more than 450 liters. The "Package" is the individual bottle, tube or drum, not a carton containing many bottles.

UN Number

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UN No. (IMDG) Not Regulated

UN No. (ICAO) 3334

UN No. (DOT) NA1993

UN proper shipping name

Proper shipping name (IMDG) Not regulated

Proper shipping name (ICAO) AVIATION REGULATED LIQUID, N.O.S. (contains allyl 2-cyanoacrylate)

Proper shipping name (DOT) COMBUSTIBLE LIQUID, N.O.S. (Cyanoacrylate ester)

Transport hazard class(es)

DOT hazard class Combustible Liquid

IMDG Class Not applicable

ICAO class/division 9

Packing group

IMDG packing group Not Applicable

ICAO packing group III

DOT packing group III

Environmental hazardsEnvironmentally Hazardous Substance
No.**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

All the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

Acute
Chronic
Fire
ReactivityUS 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

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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 Flam. Liq. = Flammable liquid

Revision date 1/25/2018

Revision 3

Supersedes date 5/5/2015

Hazard statements in full H227 Combustible liquid.

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.

