

Permabond[®]

Engineering Adhesives

SAFETY DATA SHEET Permabond CA Solvent 100

1. Identification

Product identifier

Product name Permabond CA Solvent 100

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

Physical hazards Flam. Liq. 3 - H226

Health hazards Acute Tox. 4 - H302 Eye Irrit. 2B - H320 Carc. 1B - H350

Label elements

Pictogram



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H320 Causes eye irritation.
H350 May cause cancer.

Permabond CA Solvent 100

Precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 If exposed or concerned: Get medical advice/ attention.</p> <p>P330 Rinse mouth.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.</p>
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Contains Nitromethane

3. Composition/information on ingredients

Mixtures

Nitromethane	60-100%
CAS number: 75-52-5	
Classification	
Flam. Liq. 3 - H226	
Acute Tox. 4 - H302	

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

4. First-aid measures

Description of first aid measures

General information	Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	DO NOT induce vomiting. Get medical attention immediately. Rinse mouth. Never give anything by mouth to an unconscious person.
Skin Contact	Wash skin thoroughly with soap and water. Take off immediately all contaminated clothing. Wash clothing and clean shoes thoroughly before reuse. Get medical attention promptly if symptoms occur after washing.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical attention.

Permabond CA Solvent 100

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. Avoid contact with skin and eyes. Remove sources of ignition.

Most important symptoms and effects, both acute and delayed

General information No information available.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide (Co2). Foam. Water mist may be used to cool closed containers.

Unsuitable extinguishing media Dry chemicals.

Special hazards arising from the substance or mixture

Flammability Class Not available.

Specific hazards Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. May travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Container explosion may occur under fire conditions.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Advice for firefighters

Protective actions during firefighting As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate area. Provide adequate ventilation. Use personal protection recommended in section 8 of this SDS Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Remove sources of ignition. Take precautionary measures against static discharges. Vapors can travel to a source of ignition and flash back.

Environmental precautions

Environmental precautions Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for cleaning up Evacuate area. Eliminate all sources of ignition. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Clean contaminated objects and areas thoroughly, observing environmental regulations. Use spark-proof tools and explosion-proof equipment. Ground container and transfer equipment to eliminate sparks from static electricity.

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Permabond CA Solvent 100

Usage precautions Use only in well-ventilated areas. Eye wash facilities and emergency shower must be available when handling this product. Do not breathe vapour/spray. Avoid contact with skin, eyes and clothing. Avoid repeated exposure. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Only store in correctly labeled containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Risk of explosion by shock, friction, fire or other sources of ignition.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Nitromethane

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 50 mg/m³

A3

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 250 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

OSHA = Occupational Safety and Health Administration.

Exposure controls

Appropriate engineering controls Use local ventilation if general ventilation is insufficient to maintain vapors below established exposure limits.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

Other skin and body protection Wear protective gloves. Wear protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Colorless liquid.
Color	Colorless.
Odor	Mild.
Odor threshold	No information available.
pH	Not available.
Melting point	-28.6°C
Initial boiling point and range	100°C
Flash point	35°C
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	27.8 mm Hg @ 20°C
Vapor density	2.1

Permabond CA Solvent 100

Relative density	1.14
Solubility(ies)	105 g/l water @ 20°C
Partition coefficient	Not available.
Auto-ignition temperature	418°C Estimated value.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	No information available.
Volatile organic compound	100% Estimated value.

10. Stability and reactivity

Reactivity	Not applicable.
Stability	Stable at normal ambient temperatures and when used as recommended. Risk of explosion by shock, friction, fire or other sources of ignition. Vapors may form explosive mixtures with air. Forms an explosive Sodium salt which can burst into flame on contact with water
Possibility of hazardous reactions	None known.
Conditions to avoid	Keep away from heat, sparks and open flame.
Materials to avoid	Amines. Strong acids. Bases Oxidizing agents. Reducing agents. Copper Copper alloys Metal oxides. Hydrocarbons - halogenated. Metal salts Metals
Hazardous decomposition products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Skin corrosion/irritation

Skin corrosion/irritation No information available.

Serious eye damage/irritation

Serious eye damage/irritation No information available.

Skin sensitization

Skin sensitization No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Permabond CA Solvent 100

Aspiration hazard

Aspiration hazard No information available.

Acute and chronic health hazards Avoid repeated exposure Reasonably anticipated to be a human carcinogen. Limited evidence of a carcinogenic effect.

Route of entry Inhalation Oral Skin and/or eye contact

Target Organs Eyes Skin Central nervous system Liver

Toxicological information on ingredients.

Nitromethane

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

12. Ecological Information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Bioaccumulative potential

Partition coefficient Not available.

13. Disposal considerations

Waste treatment methods

Disposal methods Dispose of according to Federal, State/Provincial and local regulations. Refer to section 8 before handling.

14. Transport information

UN Number

UN No. (IMDG) 1261

UN No. (ICAO) 1261

UN No. (DOT) UN1261

UN proper shipping name

Proper shipping name (IMDG) NITROMETHANE

Proper shipping name (ICAO) NITROMETHANE

Proper shipping name (DOT) NITROMETHANE

Transport hazard class(es)

DOT hazard class 3

DOT hazard label 3

IMDG Class 3

ICAO class/division 3

Permabond CA Solvent 100

Transport labels



DOT transport labels



Packing group

IMDG packing group II

ICAO packing group II

DOT packing group II

Environmental hazards

Environmentally Hazardous Substance

No.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None above reporting de minimis.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None above reporting limits

SARA 313 Emission Reporting

Nitromethane

SARA (311/312) Hazard Categories

Acute
Chronic
Fire
Reactivity
Sudden release of Pressure Hazard

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

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None above reporting limits

16. Other information

Permabond CA Solvent 100

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Eye Irrit. = Eye irritation Carc. = Carcinogenicity Flam. Liq. = Flammable liquid
Revision date	8/31/2017
Revision	1
Hazard statements in full	H226 Flammable liquid and vapor. H302 Harmful if swallowed. H320 Causes eye irritation. H350 May cause cancer.

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.