

MSDS
Material Safety Data Sheet
PERMABOND® 105



READ MATERIAL SAFETY DATA SHEET BEFORE HANDLING PRODUCT!

Issue Date 02/17/09

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
PRODUCT NAME PERMABOND® 105
adhesive
MANUFACTURER PERMABOND LLC
14 Robinson Street
Pottstown, PA 19464

EMERGENCY PHONES:
MEDICAL – 1-866-827-6282
TRANSPORT - (CHEMTREC) – 1-800-424-9300

MSDS REQUESTS: HELP LINE: 1-800-640-7599

SYNONYMS SUPER GLUE

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY Cyanoacrylate Adhesive

COMPONENT CAS NUMBER CONCENTRATION (%)
Ethyl cyanoacrylate 7085-85-0 60 - 100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING.
ON CONTACT, WILL BOND EYELIDS TOGETHER
EYE IRRITANT. SKIN IRRITANT.
HARMFUL IF SWALLOWED. ON CONTACT WILL BOND SKIN
Colorless Liquid Pungent odor

EYE Will cause eye irritation. On contact, will bond eyelids together.
SKIN CONTACT Repeated or prolonged skin contact may result in moderate irritation. On contact, immediate bonding of the skin will occur.
INHALATION Vapor or aerosol, if generated, can cause irritation of the eyes, nose and respiratory tract. Vapor may be irritant to the respiratory tract.
INGESTION On contact, immediate bonding of mouth could occur.

4. FIRST-AID MEASURES

EYE Flush with large amounts of water while holding eyelids open. Get medical attention immediately. Cured adhesive will not bond well to surface of eye, but corneal damage from abrasion may result. Do not wear contact lenses when working with this material.
SKIN CONTACT No attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can be easily torn. Wash with large volumes of soap and water while flexing bonded skin parts. This procedure will slowly release bonded areas. DO NOT mechanically remove cured adhesive or attempt to pull skin apart.
INHALATION Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.
INGESTION Immediate bonding of mouth will occur. Get medical attention.

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5. FIREFIGHTING MEASURES

FLASH POINT	167 °F (Setaflash Closed Tester)
EXTINGUISHING MEDIA	CO ₂ ; Dry Chemical; Foam
SPECIAL FIREFIGHTING PROCEDURES	Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
FIRE & EXPLOSION HAZARDS	Cloths used to wipe up spills may cause rapid polymerization that could generate sufficient heat to ignite the cloth. Combustion will evolve toxic and irritant vapors.
FLAMMABILITY HAZARD CLASS	2 = Moderate.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES	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. Wear NIOSH approved respirator for organic vapors if needed, and protective clothing.
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For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE	= 35 - 45 °F = 2 - 7 °C
HANDLING/STORAGE	Keep away from heat, sources of ignition and direct sunlight. Keep material refrigerated at the storage temperature referenced above.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	EXPOSURE LIMITS	
Ethyl cyanoacrylate	ACGIH-TWA: 0.2 ppm	OSHA-PEL: 2 ppm OSHA-STEL: 4 ppm
VENTILATION REQUIREMENTS	Local.	
EYE PROTECTION REQUIREMENTS	Safety glasses, goggles or face shield to protect against splashing.	
GLOVE REQUIREMENTS	Wear polyethylene gloves. Do not wear rubber or cloth gloves.	
CLOTHING REQUIREMENTS	No special clothing required for low volume activity.	
CHANGE/REMOVAL OF CLOTHING	Remove contaminated clothing and launder before reuse. Discard shoes, belts, wallets, and any other contaminated leather items.	
WASH REQUIREMENTS	Wash before eating, drinking, or using toilet facilities.	
RESPIRATOR REQUIREMENTS	Avoid prolonged or repeated breathing of vapor or mists. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure.	

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9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE	Mixture
PHYSICAL FORM	Liquid
COLOR	Colorless
ODOR	Pungent
PH AS IS	Not applicable
pH IN (1%) SOLUTION	Not applicable
OXIDIZING PROPERTIES	Not applicable
BOILING POINT	1403 ∞F
MELTING/FREEZING POINT	Not available
SOLUBILITY IN WATER	Insoluble
VISCOSITY	50 cPs
SPECIFIC GRAVITY (WATER=1)	1.05
BULK DENSITY	8.75 lb/gal
VAPOR PRESSURE (mmHg)	0.3
VAPOR DENSITY (air = 1)	>1
VOLATILES	Nil
VOLATILE ORGANIC COMPOUNDS	Nil
FLASH POINT	167 ∞F (Setaflash Closed Tester)

10. STABILITY AND REACTIVITY

STABILITY	Stable
REACTIVITY HAZARD CLASS	2 = Reactive material.
HAZARDOUS DECOMPOSITION PRODUCTS	Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY	Inhalation; Skin Contact; Eye Contact; Ingestion	
CHRONIC (LONG TERM) EFFECTS OF EXPOSURE		
TARGET ORGANS	Skin; Eyes; Respiratory system	
CARCINOGEN	No.	
COMPONENT	ORAL TOXICITY	NOTES ON ORAL TOXICITY
Ethyl cyanoacrylate	Oral LD50: Rat 180 mg/kg	Ingestion may cause irritation of the gastrointestinal tract. On contact, immediate bonding of mouth could occur.
COMPONENT	DERMAL TOXICITY	NOTES ON DERMAL TOXICITY
Ethyl cyanoacrylate	Dermal LD50: Rabbit 220 ml/kg	Irritating to the skin. On contact, immediate bonding of the skin will occur.
COMPONENT	INHALATION TOXICITY	NOTES ON INHALATION TOXICITY
Ethyl cyanoacrylate		Vapor, if generated, can cause irritation of the eyes, nose and respiratory tract. Avoid breathing vapors or mists.

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11. TOXICOLOGICAL INFORMATION – CONT'D

COMPONENT	NOTES ON EYE IRRITATION
Ethyl cyanoacrylate	On contact, will bond eyelids together. Vapors are lachrymatory. Will cause eye irritation. Cyanoacrylates will not bond to the eye but may cause corneal scratching.

12. ECOLOGICAL INFORMATION

POTENTIAL TO BIOACCUMULATE	Unknown.
AQUATIC TOXICITY	None Established

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS	Disposal should be in accordance with local, state or national legislation.
EMPTY CONTAINER WARNINGS	Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

14. TRANSPORTATION INFORMATION

This section provided for general information only.

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Combustible liquids, n.o.s. (Cyanoacrylate ester)
Hazard class or division: 3
Identification number: NA 1993
Packing group: None
Exceptions: (Not more than 450 Liters) Unrestricted
Marine pollutant: None

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.

International Air Transportation (ICAO/IATA):

Proper shipping name: Aviation regulated liquids, n.o.s (Cyanoacrylate ester)
Hazard class or division: 9
Identification number: UN3334
Packing group: III
Exceptions: (Not more than 500ml) Unrestricted

Please note that Cyanoacrylates are restricted for air transportation in packages containing more than 500gr. The "Package" is the individual bottle, tube or drum, not a carton containing many bottles. Permabond's 3g, 20gr, 1 ounce(28.4 gr), 1 pound(454gr) and 500gr, are not restricted for air transportation.

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14. TRANSPORTATION INFORMATION – CONT'D

Water Transportation (IMO/IMDG):

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None

The information provided herein may not include the impact of additional regulatory requirements (eg, for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/of marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

15. REGULATORY INFORMATION

USA
TSCA

All components are on the TSCA inventory.

SARA/TITLE III

CAS NUMBER

CONCENTRATION (%)

Contains no substances at or above the reporting threshold under Section 313.

16. OTHER INFORMATION

MSDS DATE

02/17/09

This MSDS contains change from the previous one in section 1; Update on Manufacturer Address.

FOR INFORMATION CONTACT:

Permabond LLC
HELP Line: 1-800-640-7599

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.