

MSDS

Material Safety Data Sheet

PERMABOND® 102



READ MATERIAL SAFETY DATA SHEET BEFORE HANDLING PRODUCT!

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	
PRODUCT NAME	PERMABOND® 102
-MANUFACTURER-	-SUPPLIER-
PERMABOND LLC	PERMABOND LLC
14 Robinson Street	14 Robinson Street
Pottstown, PA 19464	Pottstown, PA 19464
USA	USA
1-800-640-7599	1-800-640-7599
Emergency Telephone:866-827-6282	Emergency Telephone:866-827-6282
(US, Canada)	(US, Canada)
Chemtrec: 800-424-9300 (US - 24hrs)	Chemtrec: 800-424-9300 (US - 24hrs)
Chemtrec International: 703-527-3887	Chemtrec International: 703-527-3887
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
SKIN IRRITANT. ON CONTACT WILL BOND SKIN
Colorless Liquid Pungent odor

EYE	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 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.
FLAMMABILITY HAZARD CLASS	Combustion will evolve toxic and irritant vapors. 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.	
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.	

9. PHYSICAL AND CHEMICAL PROPERTIES

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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	100 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
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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.

11. TOXICOLOGICAL INFORMATION – CONT'D

COMPONENT	INHALATION TOXICITY	NOTES ON INHALATION TOXICITY
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Ethyl cyanoacrylate

Vapor, if generated, can cause irritation of the eyes, nose and respiratory tract. Avoid breathing vapors or mists.

COMPONENT

Ethyl cyanoacrylate

NOTES ON EYE IRRITATION

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.

FOR NON-BULK SHIPMENTS.

FOR MORE COMPLETE TRANSPORTATION REGULATORY INFORMATION PLEASE REFER TO THE SHIPPING DOCUMENTS ACCOMPANYING THE SHIPMENT OF THIS PRODUCT.

DOT CLASSIFICATION

PROPER SHIPPING NAME	COMBUSTIBLE LIQUID, N.O.S.
TECHNICAL NAME	(ETHYL CYANOACRYLATE)
HAZARD CLASS	N
U.N. NUMBER	NA1993
PACKING GROUP	III

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

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USA

TSCA

All components are on the TSCA inventory.

SARA/TITLE III

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

CAS NUMBER

CONCENTRATION (%)

16. OTHER INFORMATION

MSDS DATE

January 1, 2004

FOR INFORMATION CONTACT:

Permabond LLC

20C World's Fair Drive

Somerset, NJ 08873

USA 732-868-1372

Emergency Telephone: 866-827-6282

(US, Canada)

Chemtrec: 800-424-9300 (US - 24hrs)

Chemtrec International: 703-527-3887

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.