

PERMA-BOND

Material Safety Data Sheet

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I. PRODUCT INFORMATION

Sold By: SUPERCO - 25041 Anza Dr. Valencia, CA 91355
Product: PERMA-BOND #7090
Product Description: Polyurethane coated fiberglass fabric
Emergency Phone Number: 800-255-3924
For Information Call: 661-775-8877
Date Prepared: 1/22/03 Revision Date: 1/3/03

II. HAZARDOUS INGREDIENTS

Hydroxy terminated poly Isocyanate 4,4 diphenyl methane diisocyanate and higher oligomers	42%	Non hazardous
Tertiary amine	56%	Hazardous
Silicon	2%	Eye and skin irritant
Benzoyl chloride	<1%	Non hazardous
	<1%	Health and fire hazard

III. PHYSICAL AND CHEMICAL CHARACTERISTICS (FIRE AND EXPLOSION DATA)

Boiling Point (F)	590 (decomposes)
Vapor Pressure (mm hg)	<10.5
Solubility in Water	Reacts with water to liberate carbon dioxide
Appearance and Odor	Fiberglass tape coated with a viscous liquid, aromatic
Flash Point (F)	>300
Freeze/Melt Point (F)	50
Specific Gravity (resin)	1.1
Extinguishing Media for Fire	Dry chemical, carbon dioxide, foam
Special Fire Fighting Procedures	Full emergency equipment with self contained breathing apparatus and full protective clothing must be worn by firefighters.
Unusual Fire & Explosion Hazards	At high temperatures MDI vapors (Diphenylmethane Diisocyanate) may occur; pressure and explosion hazards are also present at high temperatures in closed containers. Hazardous gases generated.

IV. PHYSICAL HAZARDS

Stability	Stable under normal conditions
Conditions to Avoid	Heat above 200F
Materials to Avoid	Moisture (water), amines, strong bases, and alcohols
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, HCN, MDI, NOx
Hazardous Polymerization	MDI can polymerize and/or decompose and pressure build up

V. HEALTH HAZARD DATA

TLV: 0.55 mg/m3	OSHA PEL: 0.2 mg/m3	LD50: 15,000 mg/kg oral
Skin		Reaction will occur which will cause irritation, rash and blisters
Eyes		Irritation will occur, corneal damage may result
Ingestion		Irritation and corrosive to mouth and stomach
Inhalation		Vapors can irritate, burn nose and throat
Effects of Over Exposure		Chemical asthma (sensitization) may occur
Toxicology Test Data		Rat, 4 hr inhalation LC50-Areosol 490 mg/cu. m-highly toxic
		Rat, 4 hr inhalation LC50-Vapor mg/1 – toxic
		Rat, oral LD50->10,000 mg/kg – practically nontoxic
		Rat, inhalation oncogenicity study @ 0.2, 1, 6 mg/cu. m
		Urt irritant; Carcinogenic @ 6mg/cu. m

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VI. EMERGENCY FIRST AID PROCEDURES

Skin	Remove contaminated clothing and wash affected area with soap and water
Eyes	Flush with running water for 15 minutes
Ingestion	DO NOT INDUCE VOMITING , dilute with water and get immediate medical attention
Inhalation	Move to area free from risk, administer oxygen if necessary

Aggravated Medical Conditions: Individuals who are sensitized to isocyanates and those with preexisting lung diseases or conditions, including non-specific bronchial hyperactivity or asthma, must avoid all exposure to isocyanates.

VII. SPECIAL PRECAUTIONS AND LEAK PROCEDURES

Storage Recommendations	68-86 degrees F
Leak Procedures	Ventilated leak area and absorb with saw dust or absorbent
Disposal Recommendations	In accordance with federal, state, and local environmental control regulations. Do not burn empty containers. Vapors and gases may be toxic.

Caution: Hot organic vapors from this material may be susceptible to sudden and spontaneous combustion when mixed with air. Ignition may occur at below published temperatures.

VIII. OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazardous Communications Standard (29 CFR 1910.1200). The information is given in good faith, but no warranty, express or implied is made.