



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURING LOCATION:

Rutland Plastic Technologies, Inc.
 10021 Rodney Street
 Pineville, NC 28134
 704/553-0046

HAZARDOUS MATERIAL INFORMATION SYSTEM:

Health:	2
Flammability:	1
Reactivity:	0
Personal Protection:	D

IN CASE OF EMERGENCY CONTACT: Infotrac: 1-800-535-5053

PRODUCT NAME: Fiberbond
CHEMICAL FAMILY: Mixture
PRODUCT CODE: MZ0001

MSDS NUMBER: 54
DATE REVISED: 10/9/2006
DATE PRINTED: 7/28/2008
SUPERSEDES: 3/28/2005

PREPARED BY: Kimberly C. Leitch (704) 553-0046 ext. 155

2. HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT	TLV	PEL
Homopolymer of 1,3-Diisocyanato-Methyl Benzene	26603-40-7	~25%	ND	ND
Toluene-2,4-Diisocyanate (TDI)	584-84-9	<0.5%	0.005 ppm	0.02 ppm
Dibutyl Phthalate	84-74-2	~75%	5 ppm	5 ppm

The above ingredients are defined as hazardous by OSHA 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

EYE CONTACT: Isocyanate vapor will irritate the membranes of the eyes.

SKIN CONTACT: May cause skin irritation or dermatitis.

INGESTION: Oral toxicity is low, but swallowing should be avoided.

3. HAZARDS IDENTIFICATION

INHALATION: Isocyanate vapor will irritate the membranes of the nose throat and lungs. Isocyanate vapor may induce an allergic response, and repeated exposure may lead to sensitization.

4. FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Get medical attention.

SKIN: Remove contaminated clothing. Wash with soap and water.

INHALATION: Remove to fresh air. Get medical attention. The onset of symptoms may be delayed for several hours up to two days after exposure.

INGESTION: If the chemical is confined to the mouth, wash out mouth, and do not swallow mouth wash. If swallowed, give liquids if victim is conscious. Do not induce vomiting except on the orders of a physician.

MEDICAL CONDITIONS AGGRAVATED: Isocyanate sensitization.

NOTE TO PHYSICIAN: Treatment for inhalation is essentially symptomatic for primary irritation or for allergic bronchospasm.

5. FIRE FIGHTING MEASURES

FLASH POINT (° F): 295° F (PMCC)

OSHA FLAMMABILITY CLASSIFICATION: None

EXTINGUISHING MEDIA: Dry chemical, CO₂, High expansion (proteinic) chemical foam, Water spray for cooling in large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus and full protective clothing.

EXPLOSION LIMITS IN AIR - LOWER (%): 0.50% **UPPER (%):** 2.50%

AUTO IGNITION TEMP (° F): Unknown

UNUSUAL FIRE AND EXPLOSION HAZARDS: TDI and other toxic vapors generated by decomposition or combustion may present an inhalation health hazards.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate spill area. Wear full protective equipment during clean up. Use absorbent materials. Shovel into properly labeled containers.

7. HANDLING AND STORAGE

HANDLING: Insure that the level of isocyanate vapor does not exceed the permitted maximum. The odor threshold is generally above the MEL (Maximum Exposure Level), so do not use odor as an indicator.

STORAGE: Do not store or heat with flame. Keep containers closed. Store between 70° F and 95° F in a well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Unknown

RESPIRATORY PROTECTION EQUIPMENT: NIOSH approved combination dust/ vapor respirator if exposure limits are exceeded.

PROTECTIVE GLOVES: Recommended

EYE AND FACE PROTECTION: Splash proof recommended

OTHER PROTECTIVE EQUIPMENT: Apron or coverall

VENTILATION: Good mechanical ventilation and exhaust should be provided in the areas where this product is used or heated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range/Point: 383° F
Vapor Pressure: <5 mm Hg at 55° C
Vapor Density (AIR=1): >1
Freezing Point: Low temperature properties not determined
Melting Point: Low temperature properties not determined
Physical State: Liquid
Color: Light yellow
% Volatile by Weight: 2.13
VOC (lbs/gal): 0.2 lbs/gal
Evaporation Rate (Butyl Acetate=1): Not determined
Specific Gravity @ 25° C: 1.13
Weight per gallon: 9.40

10. STABILITY AND REACTIVITY

STABILITY: The product is stable under normal conditions

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS: CO, CO₂, oxides of nitrogen, traces of HCN, TDI vapors.

10. STABILITY AND REACTIVITY (CONTINUED)

INCOMPATIBILITY (MATERIALS TO AVOID): Water, amines, strong bases, alcohols, or oxidizers.

CONDITIONS TO AVOID: Elevated temperatures

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: This product is not listed as a carcinogen by NTP, IARC, or OSHA.

TOXICITY DATA: Low acute toxicity (ingestion). Respiratory irritant and sensitizer.

ACUTE ORAL LD50: >5000 mg/kg

ACUTE DERMAL LD50: Not Available

ACUTE INHALATION LC50: Not Available

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data has been measured on this product.

CHEMICAL FATE INFORMATION: Unknown

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: This product is not a listed hazardous waste. Under RCRA, it is the responsibility of the user of a product to determine, at the time of disposal, whether the product falls under any of the hazardous waste classifications (ignitability, corrosivity, reactivity, and toxicity). This is because the user's processes might change the characteristics of the product. Dispose of this material in accordance with all applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Environmentally Hazardous Substance, liquid, NOS

DOT HAZARD CLASS: 9

UN/NA NUMBER: UN3082

DOT PACKING GROUP: III

AIR FREIGHT TRANSPORTATION: Not classified as dangerous under ICAO regulations.

OCEAN TRANSPORTATION: Marine Pollutant

15. REGULATORY INFORMATION

TSCA STATUS: All components of these products are on the US TSCA Inventory.

CALIFORNIA PROPOSITION 65: Toluene-2,4-diisocyanate; CAS# 584-84-9

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST: Toluene-2,4-diisocyanate; CAS# 584-84-9

SARA (311,312) HAZARD CLASS: Acute, Chronic

SARA SECTION 313 TOXIC CHEMICALS: Toluene-2,4-diisocyanate; CAS# 584-84-9 <0.5%
Dibutyl Phthalate; CAS# 84-74-2 ~75%

CARCINOGENS ACCORDING TO NTP, IARC, OR OSHA: Toluene-2,4-diisocyanate (TDI);
CAS# 584-84-9

CERCLA RQ 13 lbs

AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES: Unknown

CANADIAN INVENTORY: Toluene-2,4-diisocyanate; CAS# 584-84-9 <0.5%
Dibutyl Phthalate; CAS# 84-74-2 ~75%

EINECS REGULATIONS: This product only contains substances which are on the EINECS.

JAPAN: Unknown

KOREAN CHEMICAL INVENTORY: Unknown

16. OTHER INFORMATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

All recommendations and statements made, if any, are based on Rutland's research and experience. However, since Rutland has no control over the conditions of use or storage of the product sold, Rutland cannot guarantee the results obtained through the use of its products. All products are sold and samples are given without any representation or warranty, expressed or implied, of fitness for any particular purpose or otherwise, and upon condition that the buyer shall determine the suitability of the product for its own purposes. This applies also where protective rights of third parties are involved. It does not release the user from the obligation to test the suitability of the product for the intended use and application.

17. LABEL INFORMATION

SINGLE WORD:	Harmful		
EYES:	Irritating to eyes		
SKIN:	Irritating to skin. May cause sensitization by skin contact.		
INHALATION:	May cause sensitization by inhalation		
HANDLING:	NIOSH approved combination dust/ vapor respirator if exposure limits are exceeded.		
RIGHT-TO-KNOW CHEMICALS:	Toluene-2,4-diisocyanate;	CAS# 584-84-9	<0.5%
	Dibutyl Phthalate;	CAS# 84-74-2	~75%