MATERIAL SAFETY DATA SHEET	3M 3M Center St. Paul, Minnesota 55144-1000 1-800-364-3577 or (65	il) 737-6501 (24	hours)
All rights re information f is allowed pr 1) the inform prior agre 2) neither th	01, Minnesota Mining a served. Copying and/c or the purpose of prop ovided that: ation is copied in ful ement is obtained from e copy nor the origina d with the intention c	or downloading o perly utilizing 1 with no chang 1 3M, and 1 is resold or	f this 3M products es unless otherwise
DIVISION: ENGINEERE TRADE NAME: 3M(TM) Fastbond(TM	D ADHESIVES	00-NF Neutral	
ID NUMBER/U.P.C.: 62-4347-7536-7 62-4347-8430-2 00 62-4347-8535-8 00 62-4347-9535-7 00	62-434 -21200-89337-7 62-434 -21200-89337-6 62-434 -21200-89338-4 62-434 -21200-89340-7 62-434 2001	17-8230-6 00-21 17-8436-9 00-21 17-9430-1 00-21 17-9930-0 00-21	200-30016-5 200-31337-0 200-89338-4 200-89339-1 200-89341-4
1. INGREDIENT		C.A.S. NO.	PERCENT
POLYCHLOROPRENE GLYCEROL ESTER OF HY PHENOL-ALPHA-PINENE TOLUENE METHYL ALCOHOL	DROGENATED ROSIN RESIN.		30.0 - 40.0 5 - 10.0
HOUR RESPONSE FROM The components of notification requi ingredients in thi	CY: THE NUMBERS AT THE ANY PHONE FOR ALL EME this product are in co rements of TSCA. All s material are listed Substances (EINECS), c d on EINECS.	RGENCIES WITH T mpliance with t applicable chem on the European	HIS PRODUCT. he chemical ical Inventory of

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372: TOLUENE METHYL ALCOHOL

ZINC OXIDE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: 3M(TM) Fastbond(TM) Contact Adhesive 2000-NF Neutral November 09, 2001 PAGE 2 _____ 2. PHYSICAL DATA _____ BOILING POINT:..... 147.00 F (methanol) VAPOR PRESSURE:..... 14.5 mmHg VAPOR DENSITY:..... 1.10 Air=1 EVAPORATION RATE: 1.00 Ether=1 SOLUBILITY IN WATER:..... Good SPECIFIC GRAVITY:..... 1.100 Water=1 PERCENT VOLATILE:..... ca. 50.00 % by wt pH:..... ca. 10.00 VISCOSITY:..... 200.0 - 600.0 centipoise MELTING POINT: N/D APPEARANCE AND ODOR: liquid, neutral, slight odor of ammonia _____ 3. FIRE AND EXPLOSION HAZARD DATA _____ FLASH POINT:..... NONE FLAMMABLE LIMITS - LEL:..... N/A FLAMMABLE LIMITS - UEL:..... N/A AUTOIGNITION TEMPERATURE:..... N/D EXTINGUISHING MEDIA: Water spray, Carbon dioxide, Dry chemical, Foam SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. UNUSUAL FIRE AND EXPLOSION HAZARDS: Not applicable. NFPA HAZARD CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 0 UNUSUAL REACTION HAZARD: none _____ 4. REACTIVITY DATA _____ STABILITY: Stable INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID: Not applicable. HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur. _____ Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: 3M(TM) Fastbond(TM) Contact Adhesive 2000-NF Neutral November 09, 2001 PAGE 3 _____ 4. REACTIVITY DATA (continued) _____ HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Hydrogen Chloride, Aldehydes, Ketones. _____ 5. ENVIRONMENTAL INFORMATION _____ SPILL RESPONSE: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Cover with absorbent material. Collect spilled material. Place in a U.S. DOT-approved container. RECOMMENDED DISPOSAL: Incinerate in an industrial or commercial facility in the presence of a combustible material. Dispose of completely cured (or polymerized) material in a sanitary landfill. ENVIRONMENTAL DATA: U.S. EPA Toxicity Characteristics Leaching Procedure, (TCLP), Method 1311, 40 CFR Part 261, Appendix 2 was run on properly mixed Fastbond 2000 and Spray Activator #1 with the following results: Arsenic <0.2 mg/L, Barium 0.10 mg/L, Cadmium <0.01 mg/L, Chromium <0.05 mg/L, Lead <0.5 mg/L, Mercury <0.2 ug/L, Selenium<0.3 mg/L, Silver<0.05 mg/L, Zinc 53 mg/L. REGULATORY INFORMATION: Volatile Organic Compounds: 37 gms/liter TESTED PER EPA METHOD 24. VOC Less H2O & Exempt Solvents: 77 gms/liter TESTED PER EPA METHOD 24. Hazardous Air Pollutants: ca. 0.09 #/# solids calculated (4.6% by weight). Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous). EPCRA HAZARD CLASS: FIRE HAZARD: NO PRESSURE: NO REACTIVITY: NO ACUTE: Yes CHRONIC: NO _____ _____ 6. SUGGESTED FIRST AID _____ EYE CONTACT: Immediately flush eyes with large amounts of water. Get immediate medical attention. _____ Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: 3M(TM) Fastbond(TM) Contact Adhesive 2000-NF Neutral November 09, 2001 PAGE 4 _____ 6. SUGGESTED FIRST AID (continued) _____ SKIN CONTACT: Flush skin with large amounts of water. If irritation persists, get medical attention. INHALATION: If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician. IF SWALLOWED: Do not induce vomiting. Drink two glasses of water. Call a physician. 7. PRECAUTIONARY INFORMATION _____ EYE PROTECTION: Avoid eye contact with vapor, spray, or mist. Wear vented goggles. Wear safety glasses with side shields. SKIN PROTECTION: Avoid prolonged or repeated skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: nitrile rubber, polyethylene/ethylene vinyl alcohol, polytetrafluoroethylene (Teflon), fluoroelastomer (Viton). RECOMMENDED VENTILATION: Do not use in a confined area or areas with little or no air movement. Conduct air monitoring to determine adequacy of ventilation. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist. RESPIRATORY PROTECTION: Avoid prolonged breathing of vapors. Avoid prolonged breathing of spray or mists. PREVENTION OF ACCIDENTAL INGESTION: Do not ingest. RECOMMENDED STORAGE: Keep container closed when not in use. Keep out of the reach of children. FIRE AND EXPLOSION AVOIDANCE: Keep container tightly closed. _____ Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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7. PRECAUTIONARY INFORMATION (continued)

OTHER PRECAUTIONARY INFORMATION: Not intended for consumer sale or use.

The Threshold Limit Value for total airborne particulate is 10 mg/m3. The Threshold Limit Value for respirable airborne particulates is 3mg/m3. The results of air monitoring conducted by 3M indicate that spraying two and one half gallons of adhesive over a 30 minute period in an area with limited ventilation results in an exposure to toluene of 1.5 ppm.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*		
WATER	NONE	NONE	NONE	NONE			
POLYCHLOROPRENE	NONE	NONE	-	NONE			
GLYCEROL ESTER OF HYDROGENATED							
ROSIN	NONE	NONE	NONE	NONE			
PHENOL-ALPHA-PINENE RESIN	NONE	NONE	NONE	NONE			
TOLUENE	50	PPM	TWA	ACGIH	Y		
TOLUENE	100	PPM	TWA	OSHAV			
	OSHA	VACATED P	EL				
TOLUENE	150	PPM	STEL	OSHAV			
	OSHA	VACATED P	EL				
TOLUENE	200	PPM	TWA	OSHA			
TOLUENE	300	PPM	CEIL	OSHA			
TOLUENE	75	PPM	STEL	CMRG	Y		
METHYL ALCOHOL	200	PPM	TWA	ACGIH	Y		
METHYL ALCOHOL	250	PPM	STEL	ACGIH			
METHYL ALCOHOL	200		TWA	OSHA	Y		
METHYL ALCOHOL	250	PPM	STEL	OSHA	Y		
ZINC OXIDE	10	MG/M3	TWA	ACGIH			
	AS DI						
ZINC OXIDE	10	MG/M3	TWA	OSHAV			
	AS DUST						
		VACATED P					
ZINC OXIDE	5	110/110	TWA	ACGIH			
	as fi						
ZINC OXIDE	10		STEL	ACGIH			
	as fi						
ZINC OXIDE		MG/M3	TWA	OSHA			
	as fi		0777	0.011311			
ZINC OXIDE		MG/M3	STEL	OSHAV			
	as fi						
ZINC OXIDE	15	WACATED P MG/M3		OSHA			
ZINC OXIDE		MG/MS OTAL DUST	TWA	USHA			
ZINC OXIDE			ע זיינט	OCITA			
	5 פעסש	MG/M3 IRABLE	TWA	OSHA			
Abbreviations: N/D - Not Determined N/A	- Not	Applicable	CA = 7	\nnrovi	matelv		
ADDICTIGITOTIS. M/D - NOU DECETIMINED N/A		APPIICADIE	CA = P	PPTOXI	matery		

November 09, 2001 PAGE 6 EXPOSURE LIMITS (continued) INGREDIENT VALUE UNIT TYPE AUTH SKIN* * SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption. SOURCE OF EXPOSURE LIMIT DATA: - ACGIH: American Conference of Governmental Industrial Hygienists

- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration

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- OSHAV: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.

- NONE: None Established

8. HEALTH HAZARD DATA

0. NEALIN NACARD DAIA

EYE CONTACT:

No adverse health effects are expected from eye contact.

SKIN CONTACT:

Contact with the skin during product use is not expected to result in significant irritation.

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Ingestion may cause:

Blindness.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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