

MATERIAL SAFETY 3M  
 DATA SHEET 3M Center  
 St. Paul, Minnesota  
 55144-1000  
 1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: ENGINEERED ADHESIVES  
 TRADE NAME:

3M(TM) Fastbond(TM) Contact Adhesive 2000-NF Blue  
 ID NUMBER/U.P.C. :  
 62-4286-7536-7 00-21200-25436-9 62-4286-8230-6 00-21200-30014-1  
 62-4286-8430-2 00-21200-87965-4 62-4286-8436-9 00-21200-25439-0  
 62-4286-8535-8 00-21200-87965-3 62-4286-9430-1 00-21200-87966-1  
 62-4286-9535-7 00-21200-87966-0 62-4286-9930-0 00-21200-87968-5  
 62-4286-9932-6 00-21200-87969-2 62-4286-9935-9 00-21200-87967-8  
 ISSUED: November 08, 2001  
 SUPERSEDES: May 16, 2001  
 DOCUMENT: 06-1862-9

1. INGREDIENT	C.A.S. NO.	PERCENT	
WATER.....	7732-18-5	40.0	- 50.0
POLYCHLOROPRENE.....	9010-98-4	30.0	- 40.0
GLYCEROL ESTER OF HYDROGENATED ROSIN....	65997-13-9	5	- 10.0
PHENOLIC ROSIN.....	68083-03-4	5	- 10.0
TOLUENE.....	108-88-3		< 3.0
METHYL ALCOHOL.....	67-56-1		< 2.5
ZINC OXIDE.....	1314-13-2		< 2

IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24  
 HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.  
 The components of this product are in compliance with the chemical  
 notification requirements of TSCA. All applicable chemical  
 ingredients in this material are listed on the European Inventory of  
 Existing Chemical Substances (EINECS), or are exempt polymers whose  
 monomers are listed on EINECS.

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

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## 2. PHYSICAL DATA

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BOILING POINT:..... 147 F  
(methanol)  
VAPOR PRESSURE:..... N/A  
VAPOR DENSITY:..... 1.1 Air=1  
EVAPORATION RATE:..... 1 Ether=1  
SOLUBILITY IN WATER:..... moderate  
SPECIFIC GRAVITY:..... 1.1 Water=1  
PERCENT VOLATILE:..... ca. 50 % by wt  
pH:..... ca. 10  
VISCOSITY:..... 200 - 600 centipoise  
MELTING POINT:..... N/D

APPEARANCE AND ODOR:  
liquid, blue, slight odor of ammonia

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## 3. FIRE AND EXPLOSION HAZARD DATA

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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

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## 4. REACTIVITY DATA

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STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
Not applicable.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

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4. REACTIVITY DATA (continued)  
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HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Hydrogen Chloride, Aldehydes,  
Ketones.

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5. ENVIRONMENTAL INFORMATION  
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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.  
Volatile Organic Compounds: .43 lb/gal tested per EPA method 24.  
Volatile Organic Compounds: 4.68 % by wt tested per EPA method 24.  
VOC Less H2O & Exempt Solvents: 77 gms/liter tested per EPA method 24.  
Hazardous Air Pollutants: 0.09 #/# solids calculated.  
Hazardous Air Pollutants: 4.68 % by wt calculated.

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

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6. SUGGESTED FIRST AID  
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EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

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.

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7. PRECAUTIONARY INFORMATION  
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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.

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 7. PRECAUTIONARY INFORMATION (continued)  
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FIRE AND EXPLOSION AVOIDANCE:  
 Keep container tightly closed.

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	NONE	
GLYCEROL ESTER OF HYDROGENATED ROSIN.....	NONE	NONE	NONE	NONE	
PHENOLIC ROSIN.....	NONE	NONE	NONE	NONE	
TOLUENE.....	50	PPM	TWA	ACGIH	Y
TOLUENE.....	100	PPM	TWA	OSHAV	
TOLUENE.....	150	PPM	STEL	OSHAV	
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	Y
METHYL ALCOHOL.....	200	PPM	TWA	OSHA	Y
METHYL ALCOHOL.....	250	PPM	STEL	OSHA	Y
ZINC OXIDE.....	10	MG/M3	TWA	ACGIH	
ZINC OXIDE.....	10	MG/M3	TWA	OSHAV	
ZINC OXIDE.....	5	MG/M3	TWA	ACGIH	
ZINC OXIDE.....	10	MG/M3	STEL	ACGIH	
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
ZINC OXIDE.....	10	MG/M3	STEL	OSHAV	
ZINC OXIDE.....	15	MG/M3	TWA	OSHA	

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EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
		RESPIRABLE			

\* 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
- 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

EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

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.

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8. HEALTH HAZARD DATA (continued)  
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Ingestion may cause:

Blindness.

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

WARNING: Contains a chemical which can cause birth defects. (108-88-3)

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SECTION CHANGE DATES  
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PRECAUTIONARY INFO. SECTION CHANGED SINCE May 16, 2001 ISSUE

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