

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 Light Orange
ID NUMBER/U.P.C. :
62-4346-7430-5 00-21200-87952-4 62-4346-7535-1 00-21200-87961-6
62-4346-8030-2 00-21200-89537-1

ISSUED: May 16, 2001
SUPERSEDES: March 29, 2000
DOCUMENT: 06-1658-1

This product is a kit or a multipart product which consists of multiple,
independently packaged components. An MSDS for each of these components is
included. Please do not separate the component MSDSs from this cover page.
The document numbers of the MSDSs for components of this product are:

06-1223-4
06-1312-5

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

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be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR
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whether the 3M product is fit for a particular purpose and suitable for
user's method of use or application. Given the variety of factors that
can affect the use and application of a 3M product, some of which are
uniquely within the user's knowledge and control, it is essential that
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DIVISION: ENGINEERED ADHESIVES
 TRADE NAME:

3M(TM) Fastbond(TM) Contact Adhesive 2000-NF Light Orange
 ID NUMBER/U.P.C. :
 62-4346-7536-9 00-21200-25437-6 62-4346-8230-8 00-21200-30015-8
 62-4346-8430-4 00-21200-87953-1 62-4346-8436-1 00-21200-31336-3
 62-4346-8535-0 00-21200-87953-1 62-4346-9430-3 00-21200-87955-5
 62-4346-9535-9 00-21200-87955-5 62-4346-9930-2 00-21200-87958-6
 62-4346-9932-8 00-21200-87959-3 62-4346-9935-1 00-21200-87957-9
 62-4346-9939-3 00-21200-49138-2

ISSUED: November 08, 2001
 SUPERSEDES: May 16, 2001
 DOCUMENT: 06-1223-4

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
PHENOL-ALPHA-PINENE RESIN.....	25359-84-6	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

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: .09 #/# solids calculated.
Hazardous Air Pollutants: 4.6 % 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

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

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

 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	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	
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	
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
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* 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.

Ingestion may cause:

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

8. HEALTH HAZARD DATA (continued)

Blindness.

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

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

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE May 16, 2001 ISSUE

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Fastbond(TM) Spray Activator No.1

MANUFACTURER: 3M

DIVISION: Industrial Adhesives and Tapes

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 01/27/2005

Supersedes Date: 01/07/2002

Document Group: 06-1312-5

Product Use:

Specific Use: Accelerator for contact adhesive

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
WATER	7732-18-5	80 - 90
ZINC SULFATE	7733-02-0	10 - 20

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: liquid, transparent

General Physical Form: Liquid

Immediate health, physical, and environmental hazards:

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

U.S. EPA Toxicity Characteristic Leaching Procedure, (TCLP), Method 1311, 40CFR 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

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	No Data Available
Flash Point	Not Applicable
Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable

5.2 EXTINGUISHING MEDIA

Material will not burn.

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists or spray. Avoid prolonged or repeated skin contact. Avoid eye contact with vapors, mists, or spray. For industrial or professional use only.

7.2 STORAGE

Keep container in well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. Use with functioning spray booth or local exhaust.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

8.2.2 Skin Protection

Gloves not normally required. Avoid prolonged or repeated skin contact. FOR INDUSTRIAL OR PROFESSIONAL USE ONLY.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Polyethylene, Polyvinyl Chloride, Polyvinyl Alcohol (PVA), Polyethylene/Ethylene Vinyl Alcohol.

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half mask R95 particulate respirator, Half facepiece or fullface air-purifying respirator with N95 particulate filters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade:	liquid, transparent
General Physical Form:	Liquid
Autoignition temperature	<i>No Data Available</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>
Boiling point	212.00 °F
Vapor Density	<=1.00 [<i>Ref Std: AIR=1</i>]
Vapor Pressure	18.5 mmHg
Specific Gravity	1.12 - 1.16 [<i>Ref Std: WATER=1</i>]
Melting point	<i>No Data Available</i>
Solubility in Water	Complete
Evaporation rate	1.00 [<i>Ref Std: WATER=1</i>]
Hazardous Air Pollutants	0 % weight [<i>Test Method: Calculated</i>]
Volatile Organic Compounds	0 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>]
Percent volatile	85 - 88 % weight
VOC Less H2O & Exempt Solvents	0 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>]
Viscosity	<=50 centipoise

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Strong bases

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Reclaim if feasible. Reclaim solvent if feasible. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

62-4446-7430-3, 62-4446-8030-0, 62-4446-8032-6, 62-4446-8033-4, 62-4446-8034-2, 62-4446-8035-9, 62-4446-8036-7, 62-4446-8037-5, 62-4446-8038-3, 62-4446-8039-1, 62-4446-8430-2, 62-4446-8530-9, 62-4446-9130-7, 62-4446-9530-8

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
ZINC SULFATE (ZINC COMPOUNDS)	7733-02-0	10 - 20

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

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.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 0 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

No revision information is available.

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