



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Scotchcast(TM) One-Step Splint

MANUFACTURER: 3M

DIVISION: Medical Division

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

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

Issue Date: 12/20/2005

Supersedes Date: 03/17/2005

Document Group: 11-3269-5

Product Use:

Specific Use: Broken bone immobilization.

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Fibrous glass	65997-17-3	45 - 60
4,4'-Diphenylmethane diisocyanate-polypropylene glycol polymer	9048-57-1	20 - 30
Diphenylmethane diisocyanate	26447-40-5	6 - 14
Polyethylene glycol monooleyl ether	9004-98-2	5 - 10
1/4" Polyurethane foam & Transfer Adhesive	Unknown	6 - 8
Wollastonite	13983-17-0	1 - 5
Diphenylmethane diisocyanate homopolymer	39310-05-9	2 - 5
Polyester Spunlaced Fabric	Unknown	1 - 3
Zinc sulfide (ZnS), copper chloride doped	68611-70-1	< 2
Butylated hydroxy toluene	128-37-0	< 0.5

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Pliable solid.

Odor, Color, Grade: Off-white foam/fabric with slight odor.

General Physical Form: Solid

Immediate health, physical, and environmental hazards:

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3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

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

Skin Contact:

Prolonged or repeated exposure may cause:

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

Inhalation:

No health effects are expected.

Ingestion:

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

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. No need for first aid is anticipated.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get 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

DO NOT USE WATER. Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

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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: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Ventilate the area with fresh air. Collect as much of the spilled material as possible. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

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

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. For industrial or professional use only. Avoid contact with unprotected areas of the splint created by trimming or removal of the fabric or foam covering.

7.2 STORAGE

For best performance, store between 40-80 F in a dry environment.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use in a well-ventilated area.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

8.2.2 Skin Protection

Protective gloves are not necessary while handling this product. Care should be exercised, however, to avoid contact with unprotected areas of the splint created by trimming or removal of the fabric or foam covering. See Product Insert for additional precaution statements.

8.2.3 Respiratory Protection

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Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Wash hands after handling and before eating.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
Diphenylmethane diisocyanate	ACGIH	TWA	0.005 ppm	
Diphenylmethane diisocyanate	OSHA	CEIL	0.02 ppm	Table Z-1
Butylated hydroxy toluene	ACGIH	TWA	2 mg/m ³	Table A4
Butylated hydroxy toluene	OSHA	TWA	10 mg/m ³	Table Z-1 A
Fibrous glass	3M	TWA, as dust	10 mg/m ³	

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Pliable solid.
Odor, Color, Grade:	Off-white foam/fabric with slight odor.
General Physical Form:	Solid
Autoignition temperature	No Data Available
Flash Point	Not Applicable
Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable
Boiling point	Not Applicable
Density	No Data Available
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	1.1 [Details: MITS data]
pH	Not Applicable
Melting point	No Data Available
Solubility in Water	Nil
Evaporation rate	Not Applicable
Volatile Organic Compounds	No Data Available
Percent volatile	Not Applicable
VOC Less H ₂ O & Exempt Solvents	No Data Available
Viscosity	35000 - 65000 centipoise [@ 73.4 °F]

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Strong bases; Amines; Alcohols; Water Additional Information: Product reacts with

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atmospheric moisture or water and may become unusable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Hydrogen Cyanide	Not Specified
Oxides of Nitrogen	Not Specified

SECTION 11: TOXICOLOGICAL INFORMATION

Product-Based Toxicology Information:

Air sampling indicates that Isocyanate vapors are not detectable during use. The limit of detection is 0.0039 parts per million. Those people with bronchial problems or with isocyanate sensitivity may respond to low isocyanate concentrations (at levels well below TLV levels of 0.02 ppm). No known occurrences with this product.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of completely cured (or polymerized) wastes in a sanitary landfill.

As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator in the presence of a combustible material.

EPA Hazardous Waste Number (RCRA): Not regulated

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

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

70-2005-8961-5, 70-2005-8962-3, 70-2005-8963-1, 70-2005-8964-9, 70-2006-3707-5, 70-2006-8059-6, 70-2006-8060-1, 70-2007-3882-4, 70-2007-3883-2, 70-2007-3884-0, FH-5000-3942-2, FH-5000-3943-0, FH-5000-3944-8, FH-5000-3986-7

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 - No 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 sulfide (ZnS), copper chloride doped (COPPER COMPOUNDS (EPCRA 313))	68611-70-1	<2
Zinc sulfide (ZnS), copper chloride doped (ZINC COMPOUNDS)	68611-70-1	<2

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

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

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NFPA Hazard Classification

Health: 1 Flammability: 1 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.

Revision Changes:

Section 7: Handling information was modified.
Section 9: Property description for optional properties was modified.
Section 8: Skin protection comment was added.
Section 7: Handling comment was added.
Section 8: Other skin protection comment was deleted.
Section 8: Skin protection phrase was deleted.

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Status	Item Num	Catalog	Mfg	Abb	MSDS	Description
DMF	189799	76312	3MORTH	02		CASTING SPLINT, ONE-STEP 3"X12
DMF	189800	76415	3MORTH	02		CASTING SPLINT, ONE-STEP 4"X15
DMF	447722	76210	3MORTH	02		CASTING SPLINT, ONE-STEP 2"X10
	447727	76530	3MORTH	02		SPLINT, SCOTCHCAST ONE-STEP 5"
	447731	86335	3MORTH	02		SPLINT, SCOTCHCAST ONE-STEP 3"
DGM	447732	86545	3MORTH	02		CASTING SPLINT, ONE-STEP 5"X45
	465128	76312A	3MORTH	02		SPLINT, SCOTCHCAST ONE-STEP 3"
	465129	76415A	3MORTH	02		SPLINT, SCOTCHCAST ONE-STEP 4"
DGM	201264	76430	3MORTH	02		CASTING SPLINT, ONE-STEP 4"X30
DGM	201265	76530	3MORTH	02		CASTING SPLINT, ONE-STEP 5"X30
DGM	209887	76210	3MORTH	02		CASTING SPLINT, ONE-STEP 2"X10
DGM	295747	86335	3MORTH	02		CASTING SPLINT, ONE-STEP 3"X35
	295748	86545	3MORTH	02		SPLINT, SCOTCHCAST ONE-STEP 5"
	465127	76210A	3MORTH	02		SPLINT, SCOTCHCAST ONE-STEP 2"
DMF	447723	76312	3MORTH	02		CASTING SPLINT, ONE-STEP 3"X12
DMF	447725	76415	3MORTH	02		CASTING SPLINT, ONE-STEP 4"X15
	447726	76430	3MORTH	02		SPLINT, SCOTCHCAST ONE-STEP 4"