

3MORTH

HC#01

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Status	Item Num	Catalog	Mfg	Abby	MSDS	Description	Description 2
	198262	82002	3MORTH	01		CAST TAPE, STD WHT 2"X4YDS (10	RL/BX)
	201252	82002A	3MORTH	01		CAST TAPE, BLK 2"X4YDS (10RL/B	X)
	198265	82002B	3MORTH	01		CAST TAPE, BLU 2"X4YDS (10RL/B	X)
DMF	198344	82002E	3MORTH	01		CAST TAPE, GRY 2"X4YDS (10RL/B	X)
	201222	82002G	3MORTH	01		CAST TAPE, GRN 2"X4YDS (10RL/B	X)
	199247	82002J	3MORTH	01		CAST TAPE, GLOW 2"X4YDS (10/BX	)
DMF	211860	82002K	3MORTH	01		TAPE, SCOTCHCAST PLUS ASTD 2X4	YDS (10/BX
	199231	82002L	3MORTH	01		CAST TAPE, LT BLU 2"X4YDS (10/	BX)
DMF	201256	82002M	3MORTH	01		CAST TAPE, MAROON 2"X4YDS	
	199227	82002R	3MORTH	01		CAST TAPE, RED 2"X4YDS (10RL/B	X)
	199970	82002U	3MORTH	01		CAST TAPE, PURPLE 2"X4YDS (10R	L/BX)
DMF	201239	82002Y	3MORTH	01		CAST TAPE, YLW 2"X4YDS (10RL/B	X)
	198263	82003	3MORTH	01		CAST TAPE, STD 3"X4YDS (10RL/B	X)
	201253	82003A	3MORTH	01		CAST TAPE, BLK 3"X4YDS (10RL/B	X)
	198266	82003B	3MORTH	01		CAST TAPE, BLU 3"X4YDS (10RL/B	X)
DMF	198949	82003E	3MORTH	01		CAST TAPE, GRY 3"X4YDS (10RL/B	X)
	201236	82003G	3MORTH	01		CAST TAPE, GRN 3"X4YDS (10RL/B	X)
	199248	82003J	3MORTH	01		CAST TAPE, GLOW 3X4YDS (10RL/B	X)
DMF	211861	82003K	3MORTH	01		TAPE, SCOTCHCAST PLUS ASTD 3"X	4YDS (10BX
	199232	82003L	3MORTH	01		CAST TAPE, LT BLU 3"X4YDS (10/	BX)
DMF	201257	82003M	3MORTH	01		CAST TAPE, MAROON 3"X4YDS	
	199228	82003R	3MORTH	01		CAST TAPE, RED 3"X4YDS (10RL/B	X)
DIS	201244	82003T	3MORTH	01		CAST TAPE, TAN 3"X4YDS (10RL/B	X)
	199969	82003U	3MORTH	01		CAST TAPE, PURPLE 3"X4YDS (10R	L/BX)
DIS	213998	82003X	3MORTH	01		TAPE, SCOTCHCAST + 3"X4YDS BRT	PNK (10BX
DMF	201240	82003Y	3MORTH	01		CAST TAPE, YLW 3"X4YDS (10RL/B	X)
	198264	82004	3MORTH	01		CAST TAPE, STD PLUS STD 4"X4YD	S (10RL/B
	201254	82004A	3MORTH	01		CAST TAPE, BLK 4"X4YDS (10RL/B	X)
	175350	82004B	3MORTH	01		CAST TAPE, BLU 4"X4YDS (10RL/B	X)
DMF	199276	82004E	3MORTH	01		CAST TAPE, GRY 4"X4YDS (10RL/B	X)
	201237	82004G	3MORTH	01		CAST TAPE, GRN 4"X4YDS (10RL/B	X)
	199249	82004J	3MORTH	01		CAST TAPE, GLOW 4X4YDS (10RL/B	X)
DMF	211362	82004K	3MORTH	01		TAPE, SCOTCHCAST PLUS ASTD 4"X	4YDS (10BX
	199233	82004L	3MORTH	01		CAST TAPE, LT BLU 4"X4YDS (10R	L/BX)
DMF	201258	82004M	3MORTH	01		CAST TAPE, MAROON 4"X4YDS (10R	L/BX)
DMF	198948	82004P	3MORTH	01		CAST TAPE, PNK 4"X4YDS (10RL/B	X)
	175351	82004R	3MORTH	01		CAST TAPE, RED 4"X4YDS (10RL/B	X)
	199971	82004U	3MORTH	01		CAST TAPE, PURPLE 4"X4YDS (10R	L/BX)
DMF	201241	82004Y	3MORTH	01		CAST TAPE, YLW 4"X4YDS (10RL/B	X)
	199224	82005	3MORTH	01		CAST TAPE, STD 5"X4YDS (10RL/B	X)
	201255	82005A	3MORTH	01		CAST TAPE, BLK 5"X4YDS (10RL/B	X)
	199230	82005B	3MORTH	01		CAST TAPE, BLU 5"X4YDS (10RL/B	X)
DMF	199277	82005E	3MORTH	01		CAST TAPE, GRY 5"X4YDS (10RL/B	X)
	201238	82005G	3MORTH	01		CAST TAPE, GRN 5"X4YDS (10RL/B	X)
	199234	82005L	3MORTH	01		CAST TAPE, LT BLU 5"X4YDS (10R	L/BX)
DMF	201259	82005M	3MORTH	01		CAST TAPE, MAROON 5"X4YDS (10R	L/BX)
	199229	82005R	3MORTH	01		CAST TAPE, RED 5"X4YDS (10RL/B	X)
	201247	82005U	3MORTH	01		CAST TAPE, PURPLE 5"X4YDS (10R	L/BX)
DMF	201242	82005Y	3MORTH	01		CAST TAPE, YLW 5"X4YDS (10RL/B	X)



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Scotchcast(TM) Plus Enhancing Performance Casting Tape (Standard colors)
MANUFACTURER: 3M
DIVISION: Medical-Surgical Division

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

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

Issue Date: 04/15/2004
Supersedes Date: 03/23/2004

Document Group: 19-0314-5

Product Use:
Specific Use: Bone immobilization.

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Fibrous glass	65997-17-3	50 - 60
4,4'-Diphenylmethane diisocyanate-polypropylene glycol polymer	9048-57-1	20 - 35
Diphenylmethane diisocyanate	26447-40-5	8 - 14
Polyethylene glycol monooleyl ether	9004-98-2	5 - 10
Diphenylmethane diisocyanate homopolymer	39310-05-9	2 - 5
Colorant:	Unknown	<3
Zinc sulfide (ZnS), copper chloride doped	68611-70-1	<3
Inorganic filler	13983-17-0	1 - 3
Butylated hydroxy toluene	128-37-0	<0.5

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Roll of Tape

Odor, Color, Grade: Liquid resin impregnated on knit fiberglass; slight odor; color varies.

General Physical Form: Solid

Immediate health, physical, and environmental hazards: May cause allergic skin reaction. May cause allergic

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respiratory reaction. 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, although no known occurrences have occurred with this product. Contains a chemical or chemicals which can cause cancer.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:

Delayed Dermal Irritation: Signs/symptoms may include localized redness, swelling, itching, and pain. These effects may not appear immediately following exposure.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Inhalation:

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

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.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Class Description</u>	<u>Regulation</u>
GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Group 2B	International Agency for Research on Cancer
GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Anticipated human carcinogen	National Toxicology Program Carcinogens

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: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

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	<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>

5.2 EXTINGUISHING MEDIA

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

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.

7.2 STORAGE

Store away from heat. Store out of direct sunlight. Keep container tightly closed. Keep container in well-ventilated area. Store

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between 40 degrees F and 80 degrees F.

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

Gloves not normally required. See Product Insert for additional precaution statements.

8.2.3 Respiratory Protection

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

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

<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/m3	Table A4
Butylated hydroxy toluene	OSHA	TWA	10 mg/m3	Table Z-1A
COPPER COMPOUNDS	ACGIH	TWA, as Cu dust or mist	1 mg/m3	
COPPER COMPOUNDS	OSHA	TWA, as dust or mist	1 mg/m3	Table Z-1A
FREE ISOCYANATES	3M	TWA	0.005 ppm	
FREE ISOCYANATES	3M	STEL	0.02 ppm	
Fibrous glass	3M	TWA, as dust	10 mg/m3	

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:

Odor, Color, Grade:

General Physical Form:

Autoignition temperature

Flash Point

Roll of Tape:

Liquid resin impregnated on knit fiberglass/slight odor; color varies.

Solid

No Data Available

Not Applicable

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Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable
Boiling point	Not Applicable
Density	1.1 g/ml
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	1.1
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 H2O & 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 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

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

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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):

70-2007-2415-4, 70-2007-2416-2, 70-2007-2417-0, 70-2007-2418-8, 70-2007-2419-6, 70-2007-2420-4, 70-2007-2421-2, 70-2007-2422-0, 70-2007-2423-8, 70-2007-2424-6, 70-2007-2425-3, 70-2007-2426-1, 70-2007-2427-9, 70-2007-2428-7, 70-2007-2429-5, 70-2007-2430-3, 70-2007-2431-1, 70-2007-2432-9, 70-2007-2433-7, 70-2007-2434-5, 70-2007-2435-2, 70-2007-2436-0, 70-2007-2437-8, 70-2007-2438-6, 70-2007-2439-4, 70-2007-2440-2, 70-2007-2441-0, 70-2007-2442-8, 70-2007-2443-6, 70-2007-2444-4, 70-2007-2445-1, 70-2007-2446-9, 70-2007-2447-7, 70-2007-2448-5, 70-2007-2449-3, 70-2007-2460-0, 70-2007-2461-8, 70-2007-2462-6, 70-2007-2463-4, 70-2007-4365-9, 70-2007-4366-7, 70-2007-4367-5, 70-2007-4368-3, 70-2007-4369-1, 70-2007-4370-9, 70-2007-4371-7, 70-2007-4372-5, 70-2007-4373-3, 70-2007-4374-1, 70-2007-4375-8, 70-2007-4376-6, 70-2007-4377-4, 70-2007-4378-2, 70-2007-4379-0, 70-2007-4380-8, 70-2007-4381-6, 70-2007-4382-4, 70-2007-4433-5, 70-2007-4434-3, 70-2007-4435-0, 70-2007-4436-8, 70-2007-4438-4, 70-2007-4439-2, 70-2007-4440-0, 70-2007-4442-6, 70-2007-4443-4, 70-2007-4444-2, 70-2007-4445-9, 70-2007-4446-7, 70-2007-4450-9, 70-2007-4451-7, 70-2007-4452-5, 70-2007-4453-3, 70-2007-4454-1, 70-2007-4455-8, FH-5000-5219-3, FH-5000-5228-4, FH-5000-5506-3, FH-5000-5577-4, FH-5000-5578-2, FH-5000-5579-0, FH-5000-5580-8

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 - No Delayed Hazard - No

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

Ingredient	C.A.S. No	% by Wt
Zinc sulfide (ZnS), copper chloride doped (COPPER COMPOUNDS (EPCRA 313))	68611-70-1	< 3

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3M MATERIAL SAFETY DATA SHEET 3M(TM) Scotchcast(TM) Plus Enhancing Performance Casting Tape (Standard colors)
04/15/2004

Zinc sulfide (ZnS), copper chloride doped
(ZINC COMPOUNDS)

68611-70-1

<3

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

Ingredient

GLASSWOOL FIBERS (AIRBORNE
PARTICLES OF RESPIRABLE SIZE)

C.A.S. No.

NONE

Classification

**Carcinogen

** WARNING: contains a chemical which can cause cancer.

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

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 8: Respiratory protection information was modified.

Section 14: ID Number(s) was modified.

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