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Material Safety Data Sheet

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1 Chemical Product and Company Identification

Tradename:

SCOTCHCAST 4403 ENCAPSULATING COMPOUND FOR KITS: 8960, 8961, 8963, 3832, 3832S (INACTIVE)

Product ID:

80-6100-6280-6 80-6100-6281-4 80-6100-6282-2 80-6100-6596-5
80-6107-4716-6 80-6107-7165-3

Intended Use of Product:

Encapsulating telephone cable splices.

Division:

TELECOM SYSTEMS DIVISION

2 Hazards Identification

Critical Hazards:

Corrosive (Eye Burns): Signs/symptoms can include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Severe Skin Irritation: signs/symptoms can include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Prolonged or repeated exposure may cause:

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

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



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Can be fatal if inhaled.

Chronic ingestion of an ingredient in the controlled product has been shown to cause reproductive effects in laboratory animals at maternally toxic doses.

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
PART A (PREPOLYMER):	Mixture	50
DITRIDECYL PHTHALATE	119-06-2	30 - 45
MDI POLYURETHANE PREPOLYMER	68442-03-5	15 - 25
POLYMETHYLENE POLYPHENYLENE ISOCYANATE	9016-87-9	15 - 25
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	101-68-8	15 - 20
DIPHENYLMETHANE DIISOCYANATE (MDI)	26447-40-5	1 - 5
PART B (POLYOL):	Mixture	50
PROPYLENE GLYCOL GLYCEROL TRIETHER	25791-96-2	55 - 65
DITRIDECYL PHTHALATE	119-06-2	10 - 20
N,N-DI(2-HYDROXYPROPYL)ANILINE	3077-13-2	10 - 20
DIPROPYLENE GLYCOL	25265-71-8	5 - 10

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

4 First Aid Measures

Instructions for Eye Contact:
Immediately flush eyes with large amounts of water

Immediately flush eyes with large amounts of water for at least 30 minutes. Get immediate medical attention.

Instructions for Skin Contact:
Remove contaminated clothing and shoes. Immediate

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 20 minutes or until chemical is removed. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:
Remove person to fresh air. Get medical attention.

Remove person to fresh air. Get medical attention.

Instructions for Ingestion:
Do not induce vomiting. If vomiting occurs naturally

Do not induce vomiting. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

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5 Fire Fighting Measures

Flash point: > 132.2 C TCC PARTS A&B:

Lower Explosive Limit (%): Not available

Upper Explosive Limit (%): Not available

Autoignition temperature: Not available

Suitable Extinguishing Media:

Carbon Dioxide; Dry chemical; Foam;

Exposure Hazards during Fire:

No data available.

Combustion Products from Fire:

Carbon monoxide and carbon dioxide; Oxides of nitrogen; Hydrogen Cyanide;

Unusual Fire and Explosion Hazards

None known.

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.

NFPA: Health 2

NFPA: Fire 1

NFPA: Reactivity 1

NFPA: Unusual Reaction Hazard
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.

6 Accidental Release Measures

Personal Precautions:

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.

Environmental Procedures

No data available.

Methods for cleaning up

No data available.



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Spill Response:

Contain spill. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up.

Methods for Disposal:

Incinerate in an industrial or commercial facility. Dispose of completely cured (or polymerized) wastes in a sanitary landfill.

Dispose of empty product containers in a sanitary landfill.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Strong oxidizing agents; Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

Ventilation:

No data available.

Explosion Prevention:

Prevent all sources of ignition.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact.

The following should be worn alone or in combination, as appropriate, to prevent eye contact: Safety glasses with side shields

Hand Protection:

Wear appropriate gloves when handling this material.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid breathing of vapours.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

half-mask supplied air respirator;

Ingestion (Prevention):



Wash hands after handling and before eating. Do not ingest. Keep out of the reach of children.

Recommended Ventilation:

Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Special Instructions:

Gloves should be worn for cleanup of spills or leakage where skin contact is possible.

Ingredient Exposure Data

PART A (PREPOLYMER): (Mixture)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

DITRIDECYL PHTHALATE (119-06-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral) > 64 ml/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

MDI POLYURETHANE PREPOLYMER (68442-03-5)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

POLYMETHYLENE POLYPHENYLENE ISOCYANATE (9016-87-9)

LD50 (rat, oral) 49 g/kg

LC50 (rat, inhalation/4 hours) 490 mg/m³

Exposure Limits

3M: TWA Category: FREE ISOCYANATES

3M: STEL Category: FREE ISOCYANATES 0.02 ppm 3M: STEL; Category:

FREE ISOCYANATES 0.0050 ppm 3M: TWA; Category: FREE ISOCYANATES

0.0050 ppm ACGIH: TWA; Category: Benzene, 1,

1'-methylenebis[4-isocyanato-

P,P'-METHYLENEBIS(PHENYL ISOCYANATE) (101-68-8)

LD50 (rat, oral) 9200 mg/kg

LC50 (rat, inhalation/4 hours) 178 mg/m3

Exposure Limits

3M: STEL Category: FREE ISOCYANATES



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3M: TWA Category: FREE ISOCYANATES

ACGIH-TWA: 0.02 ppm 3M: STEL; Category: FREE ISOCYANATES 0.0050

ppm 3M: TWA; Category: FREE ISOCYANATES 0.0050 ppm ACGIH: TWA

0.0050 ppm ACGIH: TWA; Category: Benzene, 1,

1'-methylenebis[4-isocyanato-

DIPHENYLMETHANE DIISOCYANATE (MDI) (26447-40-5)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 0.005 ppm 0.02 ppm 3M: STEL; Category: FREE

ISOCYANATES 0.0050 ppm 3M: TWA; Category: FREE ISOCYANATES

PART B (POLYOL): (Mixture)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

PROPYLENE GLYCOL GLYCEROL TRIETHER (25791-96-2)

LD50 (rat, oral) 2830 mg/m3 > 64

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

DITRIDECYL PHTHALATE (119-06-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral) > 64 ml/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

N,N-DI(2-HYDROXYPROPYL)ANILINE (3077-13-2)

Specific Ingredient Data

No data available.

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9 Physical and Chemical Properties

Physical form,Color,Odour:	Part A: viscous liquid; dark green colour; Part B: oily liquid; amber;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not available
Vapour pressure:	< 0.00001 mmHg (MDI) @ 25 C
Water Solubility:	Part A: Reacts Part B: Insoluble.
Specific gravity:	Part A: 1.05 Part B: 1.01
Vapour density:	8.5 Air=1 (MDI)
Volatile organic compounds:	Not applicable
Evaporation rate:	Not applicable
Viscosity:	Part A: Approximately 2000 centipoise Part B: Approximately 450 centipoise
Percent Volatile:	Not applicable

10 Stability and Reactivity

Conditions to Avoid:

None known.

Materials to Avoid:

Strong oxidizing agents; Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

Hazardous Decomposition:

Carbon monoxide and carbon dioxide; Oxides of nitrogen; Hydrogen Cyanide;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.



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11 Toxicological Information

Effects from Eye Contact:

Corrosive (Eye Burns): Signs/symptoms can include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Effects from Skin Contact:

Severe Skin Irritation: signs/symptoms can include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Prolonged or repeated exposure may cause:

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

Effects from Inhalation:

Can be fatal if inhaled.

Allergic Respiratory Reaction: Signs/symptoms can 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.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Lung Effects: Signs/symptoms may include difficulty breathing,

cough, wheezing, weakness, increased heart rate, bluish colored skin (cyanosis), sputum production and changes in lung function tests.

Effects from Ingestion:

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

Sensitization Information:

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

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

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

Chronic ingestion of an ingredient in the controlled product has been shown to cause reproductive effects in laboratory animals at maternally toxic doses.

Component Based Information:

No data available.

Product Based Information:

No data available.



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12 Ecological Information

Environmental Data:

Ecotoxicity Data:

No data available.

Ecofate Data:

Other Effects and Information:

Not determined. Since regulations vary, consult applicable regulations or authorities before disposal.

13 Disposal Considerations

Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

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

14 Transport Information

Transportation of Dangerous Goods

TDG Classification: Non-Regulated Material

Special Information:

15 Regulatory Information

WHMIS Classification: D1A, D2A, D2B

NOTE:

This product has been classified in accordance with the hazard
criteria of the Controlled Products Regulations (CPR) and the MSDS
contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the
following countries' chemical inventories, as noted:

DSL - Domestic Substances List (Canada)

TSCA - Toxic Substances Control Act (USA)

EINECS - European Inventory of Existing Commercial Chemical
Substances

AICS - Australian Inventory of Chemical Substances



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16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Update Tradename (Obsolete product) Deleted Product I.D.'s

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining 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 the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

---End---