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Material Safety Data Sheet

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1 Chemical Product and Company Identification

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Tradename:  
 3M Scotchkote Pipe Renewal Liner 2400 Part A (Base)  
 Product ID:  
 GR-2001-3494-2  
 Intended Use of Product:  
 Internal in-situ pipe coating.  
 Division:  
 ZGB- 3M United Kingdom

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2 Hazards Identification

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Critical Hazards:  
 Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.  
 Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.  
 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.  
 WARNING: Contains a chemical which can cause cancer. Titanium Dioxide (CAS 13463-67-7) (IARC human carcinogen 2B).  
 An ingredient in this product, present at >=1%, is included in Division 3 of Class 2 or in Packing Group I or II of Division 1 of Class 6 in Part III of the Transportation of Dangerous Goods

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 2 of 10 □

Regulations.

See Sections 7 and 11 for further information.

### 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
HEXAMETHYLENE DIISOCYANATE POLYMER	28182-81-2	40 - 50
Non-Hazardous Materials	Trade Secret	25 - 40
Poly[oxy(methyl-1,2-ethanediyl)], . alpha.-hydro-.omega.-hydroxy-, polymer with 1,6-diisocyanatohexane	9048-90-2	10 - 20
ZEOLITES	1318-02-1	1 - 5
DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA	67762-90-7	1 - 5
TITANIUM DIOXIDE	13463-67-7	0.1 - 1.0
HEXAMETHYLENE DIISOCYANATE	822-06-0	0.1 - 0.25

#### NOTE:

NON-HAZARDOUS MATERIALS is a Trade Secret material which is not controlled according to WHMIS criteria.

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:

Flush eyes with large amounts of water for at least 20 minutes or until chemical is removed. If signs/symptoms persist, get medical attention.

#### Instructions for Skin Contact:

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. If signs/symptoms develop, get medical attention.

#### Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention.

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 3 of 10 □

### 5 Fire Fighting Measures

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Flash point: >= 160 C CC  
 Lower Explosive Limit (%): Not applicable  
 Upper Explosive Limit (%): Not applicable  
 Autoignition temperature: 415 C  
 Suitable Extinguishing Media:  
 Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).  
 Exposure Hazards during Fire:  
 No data available.  
 Combustion Products from Fire:  
 Carbon Monoxide;  
 Carbon Dioxide;  
 Oxides of nitrogen;  
 Hydrogen Cyanide;  
 Unusual Fire and Explosion Hazards  
 None known.  
 Fire Fighting Procedures:  
 Water may be used to blanket the fire. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).  
 NFPA: Health 2  
 NFPA: Fire 1  
 NFPA: Reactivity 0  
 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.  
 Special Instructions:  
 Not applicable.

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## 6 Accidental Release Measures

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### Personal Precautions:

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

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
 (Base)

Page 4 of 10 □

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vapors in the spill area to burn or explode.

### Environmental Procedures

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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a closed container approved for transportation by appropriate authorities.

#### Methods for cleaning up

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. Contain spill. 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.

#### Spill Response:

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.

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## 7 Handling and Storage

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#### Storage Requirements:

Store away from areas where product may come into contact with food or pharmaceuticals.

Store at temperatures between 5 - 32 C

#### Incompatible Materials:

Amines;

Alcohols;

#### Ventilation:

Keep container in well-ventilated area.

#### Use Instructions:

For industrial or professional use only.

Decontaminate work surfaces frequently to avoid exposure by contact.

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 5 of 10 □

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## 8 Exposure Controls/Personal Protection

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### Personal Protection

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#### Eye Protection:

Avoid eye contact with vapours, mists, or spray.

The following should be worn alone or in combination, as appropriate, to prevent eye contact:

Indirect vented goggles;

#### Hand Protection:

Wear appropriate gloves when handling this material.

The following glove material(s) are recommended:

butyl rubber;

polyethylene/ethylene vinyl alcohol;

Skin Protection:

Avoid skin contact.

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.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

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

Half facepiece or fullface air-purifying respirator with organic vapour cartridges and N95 particulate prefilters;

Ingestion (Prevention):

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

Recommended Ventilation:

Use with appropriate local exhaust ventilation.

Use in an enclosed process area is recommended.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

HEXAMETHYLENE DIISOCYANATE POLYMER (28182-81-2)

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) 4625 mg/m3

Exposure Limits

3M: TWA 0.005 ppm; Category: FREE ISOCYANATES

3M: STEL 0.02 ppm; Category: FREE ISOCYANATES

ACGIH: TWA 0.005 ppm

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 6 of 10 □

CMRG: TWA 0.5 mg/m3

CMRG: STEL 1 mg/m3

Non-Hazardous Materials (Trade Secret)

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, polymer with 1,6-diisocyanatohexane (9048-90-2)

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

ZEOLITES (1318-02-1)

## 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.

## DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA (67762-90-7)

## Specific Ingredient Data

LD50 (rat, dermal): &gt; 16 ml/kg

LC50 (rat, inhalation, dust/1hour): 1260 2830 mg/m3

LD50 (rat, oral) &gt; 64 g/kg

LD50 (dermal, rabbit) &gt; 16 g/kg

LC50 (rat, inhalation/4 hours) 315 - 708 mg/m3

## Exposure Limits

CMRG: CEIL 5 mg/m3

## TITANIUM DIOXIDE (13463-67-7)

LD50 (rat, oral) &gt; 24000 mg/kg

LC50 (rat, inhalation/4 hours) &gt; 6820 mg/m3

## Exposure Limits

ACGIH: TWA 10 mg/m3 (Table A4) (Particulates not otherwise classified)

CMRG: TWA 5 mg/m3 (as respirable dust)

## HEXAMETHYLENE DIISOCYANATE (822-06-0)

LD50 (rat, oral) 710 uL/kg

LD50 (dermal, rabbit) □ 570 uL/kg

LC50 (rat, inhalation/4 hours) 124 mg/m3

## Exposure Limits

ACGIH: TWA 0.0050 ppm

3M: TWA 0.0050 ppm Category: FREE ISOCYANATES

3M: STEL 0.02 ppm Category: FREE ISOCYANATES

CMRG: CEIL 0.02 ppm

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 7 of 10 □

## 9 Physical and Chemical Properties

Physical form, Color, Odour:	Liquid; Thixotropic; off-white; Slight odour;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	>= 250 C
Melting point/melting range:	Not Available
Vapour pressure:	<= 16 mmHg at 20 C
Water Solubility:	Negligible
Partition coefficient (K o/w):	Not Available
Specific gravity:	1.4 Water=1
Vapour density:	Not applicable
Volatile organic compounds:	0 gms/liter Estimated
Evaporation rate:	Not applicable
Viscosity:	Not Available
Percent Volatile:	0 % by weight

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## 10 Stability and Reactivity

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### Conditions to Avoid:

None known.

### Materials to Avoid:

Amines;

Alcohols;

### Hazardous Decomposition:

Carbon Monoxide;

Carbon Dioxide;

Oxides of nitrogen;

Hydrogen Cyanide;

### Stability and Reactivity:

Hazardous polymerization will not occur.

Stable.

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## 11 Toxicological Information

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### Effects from Eye Contact:

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

### Effects from Skin Contact:

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

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

### Effects from Inhalation:

Allergic Respiratory Reaction: Signs/symptoms can include

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 8 of 10 □

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difficulty breathing, wheezing, cough, and tightness of chest.

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

### Effects from Ingestion:

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

### Sensitization Information:

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.

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

### Carcinogenicity:

WARNING: Contains a chemical which can cause cancer. Titanium Dioxide (CAS 13463-67-7) (IARC human carcinogen 2B).

### Mutagenicity:

No data available.

### Reproductive Effects:

No data available.

### Component Based Information:

An ingredient in this product, present at  $\geq 1\%$ , is included in Division 3 of Class 2 or in Packing Group I or II of Division 1 of Class 6 in Part III of the Transportation of Dangerous Goods Regulations.

Product Based Information:  
No data available.

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## 12 Ecological Information

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Environmental Data:  
Ecotoxicity Data:  
Not determined.  
Ecofate Data:  
Not determined.

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## 13 Disposal Considerations

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Product as Sold:  
Since regulations vary, consult applicable regulations or authorities before disposal.  
Product Packaging:  
No data available.  
Special Instructions:  
Since regulations vary, consult applicable regulations or authorities before disposal.

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 9 of 10 □

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## 14 Transport Information

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### Transportation of Dangerous Goods

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TDG Classification: Non-Regulated Material  
Special Information:: Contact 3M for more information.  
These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

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## 15 Regulatory Information

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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:

AICS - Australian Inventory of Chemical Substances

CICS - Chinese Inventory of Chemical Substances

KECI - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Commercial Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

The components of this product are in compliance with the chemical notification requirements of CEPA.

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3M Scotchkote Pipe Renewal Liner 2400 Part A  
(Base)

Page 10 of 10 □

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16 Other Information  
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Reason for Reissue:

The following Sections and topics have been updated or revised:  
Added French translation to MSDS

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.

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