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Material Safety Data Sheet

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Prepared by: Corporate Regulatory Services, 3M Canada Company
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1 Chemical Product and Company Identification

Tradename:

3M Scotchkote Pipe Renewal Liner 2400 Part B (Activator)

Product ID:

GR-2001-3495-9

Intended Use of Product:

Internal in-situ pipe coating.

Division:

ZGB- 3M United Kingdom

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.

Corrosive (Skin Burns): Signs/symptoms can include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

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

See Sections 7 and 11 for further information.

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3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
Non-Hazardous Materials	Trade Secret	65 - 75
Cyclohexanamine, 4,4'-methylenebis[N-(1-methylpropyl)-	154279-60-4	25 - 35

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:

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. Immediately flush skin with large amounts of water for at least 20 minutes or until chemical is removed. If signs/symptoms develop, get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

No need for first aid is anticipated. If signs/symptoms persist, get medical attention.

Instructions for Ingestion:

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

5 Fire Fighting Measures

Flash point:	>= 163 C CC
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%):	Not applicable
Autoignition temperature:	300 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 - During Combustion;
Carbon dioxide - During Combustion;

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Hydrogen Cyanide - During Combustion;

Oxides of Nitrogen - During Combustion;
Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health 3

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.

6 Accidental Release Measures

Personal Precautions:

Observe precautions from other sections. Ventilate the area.

WARNING ! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. If it can be done safely, place the leaking container in an exhaust hood or well-ventilated area. Contain spilled material. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Cover, but do not seal for 48 hours.

Environmental Procedures

Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene.

Methods for cleaning up

If the spilled material is dry and has not come in contact with other materials with which it could react dangerously, collect the spilled material with noncorroding tools (e.g. plastic scrapers). Collect as much of the spilled material as possible. Clean up residue on surfaces with an appropriate neutralizing solution, such as a 2:1 mixture of water and vinegar or by using a solvent, such as acetone. Seal the container.

Spill Response:

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Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill.

7 Handling and Storage

Storage Requirements:

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

Store away from flammable and combustible materials.

Store at temperatures between 5 - 32 C

Incompatible Materials:

Store away from acids;

Store away from oxidizing agents.

Ventilation:

No data available.

Use Instructions:

For industrial or professional use only.

Avoid contact with oxidizing agents.

Do not get in eyes, on skin or on clothing. Potentially contaminated tools, equipment and surfaces should be wiped down regularly with an appropriate neutralizing solution, such as a 2:1 mixture of water and vinegar or by using a solvent, such as acetone.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.

Do not get in eyes.

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

Full faceshield

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;

Avoid skin contact with hot material.

Skin Protection:

Do not get on skin or on clothing.

Select and use gloves and/or protective clothing to prevent skin

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

The following protective clothing material(s) are recommended:

Coveralls - Disposable, laminate

Boots - Rubber

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:
Fullface air-purifying respirator with organic vapour cartridges and P100 particulate prefilters;

Ingestion (Prevention):

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

Recommended Ventilation:

Provide appropriate local exhaust when product is heated.

Provide ventilation adequate to control dust concentrations below recommended exposure limits and/or control dust.

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

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

Non-Hazardous Materials (Trade Secret)

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

Cyclohexanamine, 4,4'-methylenebis[N-(1-methylpropyl)- (154279-60-4)

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

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9 Physical and Chemical Properties

Physical form,Color,Odour:	Solid; paste; Thixotropic; Black; Amine-like odour;
Odour Threshold:	No data available.
pH:	Not Available
Boiling point/boiling range:	>= 355 C
Melting point/melting range:	Not Available
Vapour pressure:	<= 0.1 mmHg at 20 C
Water Solubility:	Negligible
Partition coefficient (K o/w):	Not Available
Specific gravity:	1.73
Vapour density:	>= 1 Air=1
Volatile organic compounds:	0 gms/liter Estimated
Evaporation rate:	Not applicable
Viscosity:	Not Available

Percent Volatile: 0 % by weight

10 Stability and Reactivity

Conditions to Avoid:

None known.

Materials to Avoid:

Strong oxidizing agents;
Store away from acids;

Hazardous Decomposition:

Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Hydrogen Cyanide - During Combustion;
Oxides of Nitrogen - During Combustion;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

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:

Corrosive (Skin Burns): Signs/symptoms can include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

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

May be harmful if absorbed through skin.

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Effects from Inhalation:

Vapours from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

May be harmful if swallowed.

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the feces and/or vomitus may also be seen.

May cause chemical gastrointestinal burns.

Sensitization Information:

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

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.
Product Based Information:
No data available.

Other Effects & Information:
Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

12 Ecological Information

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

13 Disposal Considerations

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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14 Transport Information

Transportation of Dangerous Goods

TDG Classification:	Regulated Material.
Proper Shipping Name:	CORROSIVE LIQUID, TOXIC, N.O.S.
Class/Division:	8.0 6.1
UN Number:	UN2922
Packing Group:	II

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.

15 Regulatory Information

WHMIS Classification: E, 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:

- CICS - Chinese Inventory of Chemical Substances
- MITI - Ministry of International Trade and Industry (JAPAN)
- TSCA - Toxic Substances Control Act (USA)

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16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

- Section 3 - Composition/Information on Ingredients;
- Section 4 - First Aid Measures;
- Section 5 - Fire Fighting Measures
- Section 6 - Accidental Release Measures;
- Section 7 - Handling and Storage;
- Section 8 - Exposure Controls/Personal Protection;
- Section 9 - Physical and Chemical Properties;
- Section 11 - Toxicological Information;

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