

3M Canada Company

1840 Oxford Street East, Post Office Box 5757

London, Ontario N6A 4T1

Medical Emergency Telephone: (519) 451-2500, Ext. 2222

Transportation Emergency Telephone (CANUTEC): (613) 996-6666



=====

MATERIAL SAFETY DATA SHEET

=====

Document id : 18-0740-3 **Issue date** **2010/01/14**
Version : 7.00 Supersedes date : 2006/10/31

Copyright, 1997, 3M Canada Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Prepared by: Corporate Regulatory Services, 3M Canada Company
Telephone: (800) 364-3577, Fax: (800) 603-7758, Web Site: www.3M.ca

1 Chemical Product and Company Identification

Tradename:

3M(TM) Scotch-Weld(TM) Concrete Repair DP-600, Self-Leveling, Gray

Product ID:

41-3701-1992-1	CT-0608-7006-1	62-2649-1230-4	41-3701-1991-3
62-2649-1233-8	62-2649-1235-3	62-2649-1237-9	62-2649-5030-4
62-2649-5037-9	62-2649-5038-7	CX-1406-6897-3	FS-9100-4144-1
FS-9100-4145-8	FS-9100-4146-6		

Intended Use of Product:

This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of the WHMIS controlled components is included. An MSDS for non-WHMIS controlled components may also be included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:

Kit component(s):

18-0894-8 3M(TM) Scotch-Weld(TM) Concrete Repair 600, Self-Leveling, Gray (Part A)

18-0901-1 3M◆ Scotch-Weld◆ Concrete Repair 600, Self-Leveling, Gray (Part B)

Division:

AD - Industrial Adhesives and Tapes

3M Canada Company
1840 Oxford Street East, Post Office Box 5757
London, Ontario N6A 4T1
Medical Emergency Telephone: (519) 451-2500, Ext. 2222
Transportation Emergency Telephone (CANUTEC): (613) 996-6666

=====
Material Safety Data Sheet
=====

Document id : 18-0894-8 Issue date : 2009/11/30
Version : 3.00 Supersedes date : 2006/10/26

Copyright, 1997, 3M Canada Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Prepared by: Corporate Regulatory Services, 3M Canada Company
Telephone: (800) 364-3577, Fax: (800) 603-7758, Web Site: www.3M.ca

1 Chemical Product and Company Identification

Tradename:
3M(TM) Scotch-Weld(TM) Concrete Repair 600, Self-Leveling, Gray
(Part A)
Product ID:
62-2749-8535-7 62-2749-9535-6
Intended Use of Product:
Two-part urethane adhesive/sealant. Structural adhesive
Division:
AD - Industrial Adhesives and Tapes

2 Hazards Identification

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

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	30 - 60
DIPHENYLMETHANEDIISOCYANATE PREPOLYMER	68424-09-9	15 - 40
POLY(DIPHENYLMETHANE-4,4'- DIISOCYANATE)	25686-28-6	15 - 40
DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA	7631-86-9	1 - 5

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:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for 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.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting. Get immediate medical attention.

5 Fire Fighting Measures

Flash point: ≥ 143.3 C TCC

Lower Explosive Limit (%): Not applicable

Upper Explosive Limit (%): Not applicable

Autoignition temperature: Not applicable

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

Non-flammable: ordinary combustible material.

Combustion Products from Fire:

Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Oxides of Nitrogen - During Combustion;
Toxic Vapour, Gas, Particulate - During Combustion;

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	1
NFPA: Unusual Reaction Hazard	none

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.

Spill Response:

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 vapors in the spill area to burn or explode. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. 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. Collect as much of the spilled material as possible. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Water;
Strong acids;
Strong bases;

Ventilation:

No data available.

Use Instructions:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid eye contact with vapours, mists, or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not breathe vapours.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.

Hand Protection:

Wear appropriate gloves when handling this material.

The following glove material(s) are recommended:

butyl rubber;
nitrile rubber;

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:

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

Avoid breathing of dust created by cutting, sanding, grinding or machining.

Do not breathe vapours.

Consult the current 3M Respirator Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

During application:

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 vapor cartridges.

During grinding, scraping, sanding or heating:
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 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.

Provide appropriate local exhaust for cutting, grinding, sanding or machining.

Do not use in a confined area or areas with little or no air movement.

Ingredient Exposure Data

4,4'-DIPHENYLMETHANE DIISOCYANATE (101-68-8)

LD50 (rat, oral) 9200 mg/kg

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

Exposure Limits

ACGIH: TWA 0.005 ppm

DIPHENYLMETHANEDIISOCYANATE PREPOLYMER (68424-09-9)

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

POLY(DIPHENYLMETHANE-4,4'-DIISOCYANATE) (25686-28-6)

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 (7631-86-9)

Specific Ingredient Data

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

LD50 (rat, oral) 3160 mg/kg

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

Exposure Limits

CMRG: TWA 3 mg/m3 as respirable dust

9 Physical and Chemical Properties

Physical form,Color,Odour:	Liquid; viscous; opaque; low odour;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	>= 204.4 C
Melting point/melting range:	Not Available
Vapour pressure:	<= 0.000004 mmHg at 20 C
Water Solubility:	Negligible
Specific gravity:	◆ 1.11
Vapour density:	>= 1 Air=1
Volatile organic compounds:	<= 10 gms/liter EPA24C <= 5 gms/liter EPA24C when mixed 1:1 with Part B
Evaporation rate:	<= 1 Gels with exposure to humidity.
Viscosity:	1,250 - 2,750 centipoise
Percent Volatile:	<= 1 % by volume Estimated <= 0.5 %by volume Estimated when mixed 1:1 with Part B

10 Stability and Reactivity

Conditions to Avoid:
None known.

Materials to Avoid:
Water;
Strong acids;
Strong bases;

Hazardous Decomposition:
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Oxides of Nitrogen - During Combustion;
Toxic Vapour, Gas, Particulate - During Combustion;

Stability and Reactivity:
Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

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

Vapours released during curing may cause eye irritation.

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

Dust created by cutting, grinding, sanding, or machining can cause eye irritation: Signs/symptoms can 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.

Prolonged or repeated exposure may cause:

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

Effects from Inhalation:

Very toxic by inhalation.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

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

Prolonged or repeated exposure may cause:

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

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.

Prolonged or repeated exposure may cause:

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:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

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

12 Ecological Information

Environmental Data:
Ecotoxicity Data:
Not determined.
Ecofate Data:
Not determined.
Special statements for 2001/58/EC:
One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

13 Disposal Considerations

Product as Sold:
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.
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 Instructions: Not regulated per U.S. DOT, IATA or IMO.

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.

International Dangerous Goods Classification

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:

- TSCA - Toxic Substances Control Act (USA)
- DSL - Domestic Substances List (Canada)
- AICS - Australian Inventory of Chemical Substances
- KECI - Korean Existing Chemicals Inventory

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

- Update Tradename
- Revised Intended Use of Product
- Section 3 - Hazards Identification - Critical Hazards;
- Section 4 - First Aid Measures;
- Section 8 - Exposure Controls/Personal Protection;
- Section 11 - Toxicological Information;

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.

3M Canada Company
1840 Oxford Street East, Post Office Box 5757
London, Ontario N6A 4T1
Medical Emergency Telephone: (519) 451-2500, Ext. 2222
Transportation Emergency Telephone (CANUTEC): (613) 996-6666



=====

MATERIAL SAFETY DATA SHEET

=====



Document id : 18-0901-1 **Issue date** : **2010/01/14**
Version : 4.00 Supersedes date : 2006/10/31

Copyright, 1997, 3M Canada Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Prepared by: Corporate Regulatory Services, 3M Canada Company
Telephone: (800) 364-3577, Fax: (800) 603-7758, Web Site: www.3M.ca

1 Chemical Product and Company Identification

Tradename:

3M  Scotch-Weld  Concrete Repair 600, Self-Leveling, Gray (Part B)

Product ID:

62-2649-8535-9 62-2649-9535-8

Intended Use of Product:

Two-part urethane adhesive/sealant. Structural adhesive

Division:

AD - Industrial Adhesives and Tapes

2 Hazards Identification

Critical Hazards:

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

Prolonged or repeated exposure may cause:

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

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

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
POLYETHER POLYOL	9082-00-2	40 - 70
PROPOXYLATED TRIMETHYLOLPROPANE	25723-16-4	10 - 30
TETRAKIS (2-HYDROXYPROPYL) ETHYLENEDIAMINE	102-60-3	10 - 30
AMORPHOUS SILICA	68611-44-9	1 - 5
BIS (1,2,2,6,6-PENTAMETHYL-4- PIPERIDINYL) SEBACATE	41556-26-7	0.1 - 1.0
M-XYLENE-ALPHA,ALPHA-DIAMINE	1477-55-0	0.1 - 1.0
TITANIUM DIOXIDE	13463-67-7	0.1 - 0.3
POLYMERIC BENZOTRIAZOLE	104810-47-1	0.1 - 0.3
POLYMERIC BENZOTRIAZOLE DERIVATIVE	104810-48-2	0.1 - 0.3
SUBSTITUTED PIPERDINYL SEBACATE	82919-37-7	0.1 - 0.2

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:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for 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.

Instructions for Inhalation:

If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

Instructions for Ingestion:

Do not induce vomiting. Get immediate medical attention.

5 Fire Fighting Measures

Flash point: ≥ 143.3 C TCC

Lower Explosive Limit (%): Not applicable

Upper Explosive Limit (%): Not applicable

Autoignition temperature: Not applicable

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

Non-flammable: ordinary combustibile material.
Combustion Products from Fire:
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
Hydrogen Chloride - 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 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.
Special Instructions:
Not applicable.

6 Accidental Release Measures

Personal Precautions:
Observe precautions from other sections. 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.
Spill Response:
Ventilate the area with fresh air. Dispose of collected material as
soon as possible. Contain spill. Collect as much of the spilled
material as possible. Clean up residue with an appropriate organic
solvent. Read and follow safety precautions on the solvent label
and MSDS.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from acids;
Store away from oxidizing agents.

Ventilation:

No data available.

Use Instructions:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid eye contact with vapours, mists, or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Avoid contact with oxidizing agents.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.

Hand Protection:

Wear appropriate gloves when handling this material.
The following glove material(s) are recommended:
butyl rubber;

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 dust created by cutting, sanding, grinding or machining.
Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.
Consult the current 3M Respirator Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.
During application and curing:
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 vapor cartridges.
Cutting, Grinding or Sanding Cured Material:
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 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:
Provide appropriate local exhaust for cutting, grinding, sanding or
machining.

Ingredient Exposure Data

POLYETHER POLYOL (9082-00-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral) > 10 g/kg

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

Exposure Limits

No data available.

PROPOXYLATED TRIMETHYLOLPROPANE (25723-16-4)

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.

TETRAKIS(2-HYDROXYPROPYL)ETHYLENEDIAMINE (102-60-3)

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

AMORPHOUS SILICA (68611-44-9)

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.

BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE (41556-26-7)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

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

Exposure Limits

CMRG: TWA 1 mg/m3

M-XYLENE-ALPHA,ALPHA-DIAMINE (1477-55-0)

Specific Ingredient Data

LD50 (rat, dermal): 2000 mg/kg

LC50 (female rat, inhalation(aerosol)/4 hours): 0.8 mg/l

LD50 (rat, oral) 980 mg/kg

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

Exposure Limits

ACGIH: CEIL (skin contact contributes to exposure) 0.1 mg/m3

TITANIUM DIOXIDE (13463-67-7)

LD50 (rat, oral) > 24000 mg/kg

LC50 (rat, inhalation/4 hours) > 6820 mg/m3

Exposure Limits

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

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

POLYMERIC BENZOTRIAZOLE (104810-47-1)

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.

POLYMERIC BENZOTRIAZOLE DERIVATIVE (104810-48-2)

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.

SUBSTITUTED PIPERDINYL SEBACATE (82919-37-7)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

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

Exposure Limits

CMRG: TWA 1 mg/m3

9 Physical and Chemical Properties

Physical form,Color,Odour: Liquid; viscous; grey; slight ammonia-like odour;

Odour Threshold: No data available.

pH: Not applicable

Boiling point/boiling range: >= 204.4 C

Melting point/melting range: Not Available

Vapour pressure: Not applicable

Water Solubility: Negligible

Partition coefficient (K o/w): Not Available

Specific gravity: 1.04

Vapour density: >= 1 Air=1

Volatile organic compounds: <= 10 gms/liter EPA24C

Evaporation rate:	<= 5 gms/liter EPA24C when mixed 1:1 with Part A
Viscosity:	<= 1 Water=1 3,200 - 5,600 centipoise
Percent Volatile:	<= 1 % by volume Estimated <= 0.5 % by volume Estimated when mixed 1:1 with Part A

10 Stability and Reactivity

Conditions to Avoid:

None known.

Materials to Avoid:

Strong acids;
Strong oxidizing agents;

Hazardous Decomposition:

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

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

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

Vapours released during curing may cause eye irritation.

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

Dust created by cutting, grinding, sanding, or machining can cause eye irritation: Signs/symptoms can include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

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

Prolonged or repeated exposure may cause:

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

Effects from Inhalation:

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

Dust from cutting, grinding, sanding or machining 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:

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.

Carcinogenicity:

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

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

13 Disposal Considerations

Product as Sold:

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. Combustion products will include HCl. Facility must be capable of handling halogenated materials.

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 Instructions:	Not regulated per U.S. DOT, IATA or IMO.

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.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification:	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:

- PICCS - Philippines Inventory of Commercial Chemical Substances
- TSCA - Toxic Substances Control Act (USA)
- AICS - Australian Inventory of Chemical Substances
- DSL - Domestic Substances List (Canada)
- KECI - Korean Existing Chemicals Inventory

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Update Tradename

Section 1 - Intended Use of Product;

Section 2 - Composition/Information on Ingredients;

Section 3 - Hazards Identification - Critical Hazards;

Section 4 - First Aid Measures;

Section 6 - Accidental Release Measures;

Section 8 - Exposure Controls/Personal Protection;

Section 9 - Physical and Chemical Properties;

Section 11 - Toxicological Information;

WHMIS Classification change

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.