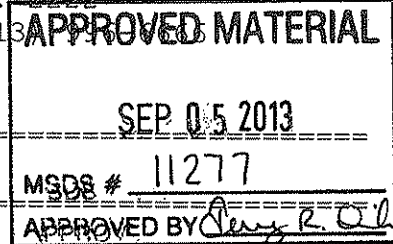


(11277)

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) 451-2500



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

Document id : 08-9432-9 Issue date : 2012/08/15  
 Version : 11.00 Supersedes date : 2009/05/12

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) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Product ID:

62-5484-5230-9	62-5484-5235-8	62-5484-5238-2	62-5484-8530-9
62-5484-9530-8	62-5485-5230-6	62-5485-5235-5	62-5485-5238-9
62-5485-8530-6	62-5485-9530-5	62-5486-5230-4	62-5486-5235-3
62-5486-5238-7	62-5486-8530-4	62-5486-9530-3	62-5484-3530-4
62-5484-3930-6	62-5485-3530-1	62-5485-3535-0	62-5485-3930-3
62-5485-3935-2	62-5486-3530-9	62-5486-3930-1	DS-2729-9107-8
DS-2729-9108-6	DS-2729-9138-3	DS-2729-9139-1	DS-2729-9143-3
DS-2729-9144-1	DS-2729-9147-4	DS-2729-9148-2	DS-2729-9151-6
DS-2729-9152-4	62-5261-5230-1	62-5261-5231-9	62-5261-5235-0
62-5261-5236-8	62-5263-5230-7	62-5263-5231-5	62-5263-5235-6
62-5263-5236-4	62-5484-3531-2	62-5484-3931-4	62-5484-3936-3
62-5484-5231-7	62-5484-5236-6	62-5484-8531-7	62-5484-9531-6
62-5485-3531-9	62-5485-3536-8	62-5485-3931-1	62-5485-3936-0
62-5485-5231-4	62-5485-5236-3	62-5485-8531-4	62-5485-9531-3
62-5486-3531-7	62-5486-3931-9	62-5486-5231-2	62-5486-5236-1
62-5486-9531-1	62-5486-8531-2		

Intended Use of Product:

Sealant

Division:

## INDUSTRIAL ADHESIVES AND TAPES

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 2 of 11 □

-----  
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.

May be absorbed following inhalation and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

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

WARNING: Contains a chemical which can cause cancer. (CAS 100-41-4) (IARC possible human carcinogen 2B)

WARNING: Contains a chemical which can cause cancer (1333-86-4) (IARC possible human carcinogen 2B)

High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

See Sections 7 and 11 for further information.

-----  
3 Composition/Information on Ingredients  
-----

Ingredient Name	CAS Number	Percentage
URETHANE POLYMER	Trade Secret	15 - 40
POLY(VINYL CHLORIDE) POLYMER	9002-86-2	20 - 35
Plasticizer Mixture	Trade Secret	10 - 30
XYLENE	1330-20-7	3 - 7
TITANIUM DIOXIDE	13463-67-7	1 - 5
PETROLEUM DISTILLATE	64742-47-8	1 - 5
CALCIUM OXIDE	1305-78-8	1 - 5
ETHYLBENZENE	100-41-4	1 - 2
IRON OXIDE	1317-61-9	0.5 - 1.5
CARBON BLACK	1333-86-4	0.1 - 0.3

## NOTE:

URETHANE POLYMER is a Trade Secret material which is not controlled according to WHMIS criteria.

PLASTICIZER MIXTURE 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.

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 3 of 11 □

---



---

#### 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 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.

---



---

#### 5 Fire Fighting Measures

---

##### Flash point:

No Flash Point

##### Lower Explosive Limit (%):

Not applicable

##### Upper Explosive Limit (%):

Not applicable

##### Autoignition temperature:

&gt;= 200 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;  
 Hydrogen Cyanide - During Combustion;  
 Oxides of Nitrogen - During Combustion;  
 Oxides of Sulfur - 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	1
NFPA: Fire	1
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 4 of 11 □

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:

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. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

## Environmental Procedures

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 the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

## Methods for cleaning up

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. Contain spill. 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.

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.

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 5 of 11 □

-----  
 7 Handling and Storage  
 -----

Storage Requirements:

Store away from areas where product may come into contact with food or pharmaceuticals. Store in a cool, dry place.

Incompatible Materials:

Store away from heat;  
 Store out of direct sunlight.

Amines;

Alcohols;

Water;

Ventilation:

No data available.

Use Instructions:

For industrial or professional use only. Keep container tightly closed.

-----  
 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.

The following glove material(s) are recommended:

polyethylene;

polyvinyl 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.

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:

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 6 of 11 □

Use with appropriate local exhaust ventilation.

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

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

URETHANE POLYMER (Trade Secret)

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.

POLY(VINYL CHLORIDE) POLYMER (9002-86-2)

LD50 (rat, oral) No data available.

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

Exposure Limits

ACGIH: TWA 1 mg/m<sup>3</sup> (Respirable) (Table A4)

Plasticizer Mixture (Trade Secret)

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

XYLENE (1330-20-7)

LD50 (rat, oral) 3523 mg/kg

LD50 (dermal, rabbit) > 1700 mg/kg

LC50 (rat, inhalation/4 hours) 5000 ppm

Exposure Limits

ACGIH: TWA 100 ppm (Table A4)  
 ACGIH: TWA 434 mg/m3 (Table A4)  
 ACGIH: STEL 150 ppm (Table A4)  
 ACGIH: STEL 651 mg/m3 (Table A4)  
 CMRG: TWA 50 ppm  
 CMRG: STEL 75 ppm

## 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)

## PETROLEUM DISTILLATE (64742-47-8)

LD50 (rat, oral) > 5 g/kg  
 LC50 (rat, inhalation/4 hours) No data available.

□

## 3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 7 of 11 □

## Exposure Limits

CMRG: TWA 300 ppm

## CALCIUM OXIDE (1305-78-8)

LD50 (rat, oral) No data available.  
 LC50 (rat, inhalation/4 hours) No data available.

## Exposure Limits

ACGIH: TWA 2 mg/m3 2 mg/m3 ACGIH: TWA

## ETHYLBENZENE (100-41-4)

LD50 (rat, oral) 3500 mg/kg  
 LD50 (dermal, rabbit) 17800 uL/kg  
 LC50 (rat, inhalation/4 hours) No data available.

## Exposure Limits

ACGIH: TWA 20 ppm (Table A3)

CMRG: TWA 25 ppm

CMRG: STEL 75 ppm

## IRON OXIDE (1317-61-9)

## 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.

## CARBON BLACK (1333-86-4)

LD50 (rat, oral) > 15400 mg/kg  
 LD50 (dermal, rabbit) > 3 g/kg  
 LC50 (rat, inhalation/4 hours) 6750 mg/m3

## Exposure Limits

ACGIH: TWA 3.0 mg/m3 (Table A3)

CMRG: TWA 0.5 mg/m3

---

 9 Physical and Chemical Properties
 

---

Physical form, Color, Odour:	Solid; paste; mild xylene odour;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	>= 136 C
Melting point/melting range:	Not Available
Vapour pressure:	Not applicable
Water Solubility:	Nil
Partition coefficient (K o/w):	Not Available
Specific gravity:	□ 1.17 Water=1
Vapour density:	Not applicable
Volatile organic compounds:	54 gms/liter EPA24T (EU VOC content)
Evaporation rate:	Not Available
Viscosity:	>= 300000 centipoise at 23 C

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 8 of 11 □

---

Percent Volatile:	4.6 % by weight ACS
-------------------	---------------------

---



---

 10 Stability and Reactivity
 

---

## Conditions to Avoid:

Heat;

Store out of direct sunlight.

## Materials to Avoid:

Amines;

Alcohols;

Water;

## Hazardous Decomposition:

Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;

Hydrogen Cyanide - During Combustion;

Oxides of Nitrogen - During Combustion;

Oxides of Sulfur - 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.

## Effects from Skin Contact:

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

## Effects from Inhalation:

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

May be absorbed following inhalation and cause target organ effects.

## Effects from Ingestion:

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

May be absorbed following ingestion and cause target organ effects.

## Sensitization Information:

No data available.

## Carcinogenicity:

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

WARNING: Contains a chemical which can cause cancer. (CAS 100-41-4) (IARC possible human carcinogen 2B)

WARNING: Contains a chemical which can cause cancer (1333-86-4) (IARC possible human carcinogen 2B)

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 9 of 11 □

## Mutagenicity:

No data available.

## Reproductive Effects:

High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

## Component Based Information:

No data available.

## Product Based Information:

No data available.

## Other Effects &amp; Information:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in

urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

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.

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 10 of 11 □

---

## 14 Transport Information

---

Transportation of Dangerous Goods

---

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.

---

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:

CICS - Chinese Inventory of Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

The components of this product are in compliance with the chemical notification requirements of CEPA. MITI - Ministry of International Trade and Industry (JAPAN)

KECI - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

□

3M(TM) POLYURETHANE SEALANT 540 (VARIOUS COLORS)

Page 11 of 11 □

---



---

16 Other Information

---

Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 1 - Intended Use of Product;

Section NOTE

Section 2 - Hazards Identification - Critical Hazards;

Section 3 - Composition/Information on Ingredients;

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 10 - Stability and Reactivity;

Section 11 - Toxicological Information;

Section 13 - Disposal Considerations;

Section 15 - Regulatory 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.

---End---

□