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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 Product Identification

Tradename:

3M(TM) POLYURETHANE ADHESIVE SEALANT 560, WHITE, GRAY, BLACK

Product ID:

62-5487-5230-2	62-5487-5235-1	62-5487-5238-5	62-5487-9530-1
62-5488-5230-0	62-5488-5235-9	62-5488-5238-3	62-5488-9530-9
62-5487-8530-2	62-5495-5230-5	62-5495-5235-4	62-5495-5239-6
62-5495-8530-5	62-5495-9530-4	CX-1406-6410-5	CX-1406-6411-3
62-5487-3530-7	62-5487-3535-6	62-5487-3930-9	62-5487-3935-8
62-5488-3530-5	62-5488-3930-7	62-5495-3530-0	62-5495-3930-2
DE-2729-2774-5	DE-2729-2775-2	DE-2729-2778-6	DE-2729-2779-4
DE-2729-2782-8	DE-2729-2783-6	DE-2729-2786-9	DE-2729-2787-7
DS-2729-9110-2	DS-2729-9111-0		

Intended Use of Product:

Sealant

Division:

INDUSTRIAL ADHESIVES AND TAPES

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
URETHANE POLYMER	Trade Secret	30 - 40
Plasticizer	70775-94-9	20 - 30
POLY(VINYL CHLORIDE) POLYMER	9002-86-2	20 - 30
SILOXANES AND SILICONES, DI-ME, REACTION WITH SILICA	67762-90-7	1 - 5
XYLENE	1330-20-7	2 - 5
IRON OXIDE	1317-61-9	1 - 4
CALCIUM OXIDE	1305-78-8	1 - 4
TITANIUM DIOXIDE	13463-67-7	1 - 4
ETHYLBENZENE	100-41-4	1 - 2
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	101-68-8	1 - 2
2,6-di-tert-butyl-4- (octadecanoxycarbonylethyl)phenol	2082-79-3	0.1 - 0.5
3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER	2530-83-8	0.1 1.0
CARBON BLACK	1333-86-4	0.1 - 0.3
P-TOLUENESULFONAMIDE	70-55-3	0.1 - 0.3

NOTE:

URETHANE POLYMER is a non-hazardous Trade Secret material according to WHMIS criteria.

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

3 Hazards Identification

Critical Hazards:

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

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 unless instructed to do so by medical personnel. Get medical attention.

5 Fire Fighting Measures

Flash point: Not applicable

Lower Explosive Limit (%): Not applicable

Upper Explosive Limit (%): Not applicable

Autoignition temperature: ≥ 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;

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 0

NFPA: Unusual Reaction Hazard none

Special Instructions:

Not applicable.

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.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. 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. Avoid contact with incompatible materials listed in the Reactivity Data Section. 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. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. 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. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

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.

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

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 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.

Plasticizer (70775-94-9)
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.

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/m3 (Respirable) (Table A4)

SILOXANES AND SILICONES, DI-ME, REACTION WITH SILICA (67762-90-7)
Specific Ingredient Data
LD50 (rat, dermal): > 16 ml/kg
LC50 (rat, inhalation, dust/1hour): 1260 2830 mg/m3
LD50 (rat, oral) > 64 g/kg
LD50 (dermal, rabbit) > 16 g/kg
LC50 (rat, inhalation/4 hours) 315 - 708 mg/m3

Exposure Limits
CMRG: CEIL 5 mg/m3

XYLENE (1330-20-7)
LD50 (rat, oral) 4300 mg/kg
LD50 (dermal, rabbit) > 1700 mg/kg
LC50 (rat, inhalation/4 hours) 5000 ppm

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

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.

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

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)

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
CMRG: STEL 75 ppm CMRG: TWA 25 ppm
ACGIH: STEL 125 ppm (Table A3)
ACGIH: TWA 100 ppm (Table A3)

P,P'-METHYLENEBIS(PHENYL ISOCYANATE) (101-68-8)
LD50 (rat, oral) 9200 mg/kg
LC50 (rat, inhalation/4 hours) 178 mg/m3

Exposure Limits
ACGIH: TWA 0.005 ppm

2,6-di-tert-butyl-4-(octadecanoxycarbonylethyl)phenol (2082-79-3)
Specific Ingredient Data
No data available.
LD50 (rat, oral) > 5000 mg/kg
LC50 (rat, inhalation/4 hours) > 1.8 mg/l

Exposure Limits
CMRG: TWA 10 mg/m3

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER (2530-83-8)
LD50 (rat, oral) 22600 uL/kg
LD50 (dermal, rabbit) 3970 uL/kg
LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits
CMRG: TWA 5 ppm

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 3.5 mg/m3 (Table A4)
CMRG: TWA 0.5 mg/m3

P-TOLUENESULFONAMIDE (70-55-3)
LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits
No data available.

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:	>= 137 C
Melting point/melting range:	Not Available
Vapour pressure:	Not applicable
Water Solubility:	Nil
Specific gravity:	◆ 1.17 Water=1
Vapour density:	Not applicable
Volatile organic compounds:	No data available.
Evaporation rate:	Not Available
Viscosity:	>= 300000 centipoise at 23 C
Percent Volatile:	6.2 % by weight

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;

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

11 Toxicological Information

Effects from Eye Contact:
Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.
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.

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 difficulty breathing, wheezing, cough, and tightness of chest. May be absorbed following inhalation and cause target organ effects.

Respiratory Tract Irritation: 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.

Prolonged or repeated exposure may cause:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Pneumoconiosis: Sign/symptoms can include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Effects from Ingestion:

May be absorbed following ingestion and cause target organ effects.

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. (13463-67-7) (IARC human carcinogen 2B).

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

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

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 & 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.

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.

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.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

13 Disposal Considerations

Product as Sold:

Dispose of completely cured (or polymerized) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

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:: 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:

AICS - Australian Inventory of Chemical Substances

CICS - Chinese Inventory of Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

KECI - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Update Tradename

Added product id(s) to the MSDS;

Section 2 - Composition/Information on Ingredients;

Section 3 - Hazards Identification - Critical Hazards;

Section 4 - First Aid Measures;

Section 5 - Fire Fighting Measures

Section 7 - Handling and Storage;

Section 8 - Exposure Controls/Personal Protection;

Section 9 - Physical and Chemical Properties;

Section 11 - Toxicological Information;

WHMIS Classification change

Section 15 - Regulatory Information: Product Certifications

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---

The image shows the iconic 3M logo in a large, bold, red font. The logo consists of the numbers '3' and 'M' joined together. The '3' is on the left and the 'M' is on the right. The font is a sans-serif typeface with thick strokes and rounded terminals.