

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1:	Identification			
1.1. Product identif 3M(TM) Scotch-We		Reactive (PUR) Adhes	ive EZ250150	
Product Identification 62-3854-5230-5 62-3854-9530-4	Numbers 62-3854-5235-4	62-3854-5236-2	62-3854-6839-2	62-3854-8530-5
1.2. Recommended	use and restrictions	on use		
Intended Use Structural adhesive				
Specific Use Curing hot melt adhe	esive.			
Restrictions on use Not applicable				
1.3. Supplier's detai	ils			
Company: Division: Address: Telephone: Website:		es and Tapes Division	5757, London, Ontario	N6A 4T1
1.4. Emergency tele Medical Emergency (613) 996-6666		HELPS / 1-800-364-3:	577; Transportation Em	ergency Telephone (CANUTEC):

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Respiratory Sensitizer: Category 1. Skin Sensitizer: Category 1. Specific Target Organ Toxicity (repeated exposure): Category 1. **2.2. Label elements Signal word** Danger

Symbols Exclamation mark | Health Hazard |

Pictograms



Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Causes damage to organs through prolonged or repeated exposure: respiratory system

Precautionary statements

Prevention:

Do not breathe dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Other hazards

May cause thermal burns.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
P,P'-DIPHENYLMETHANE	101-68-8	<= 3	Benzene, 1,1'-methylenebis[4-isocyanato-
DIISOCYANATE (MDI)			
POLYURETHANE RESIN	Trade Secret	>= 97	Not Applicable

POLYURETHANE RESIN is a non-hazardous Trade Secret material according to WHMIS criteria.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Amine Compounds	During Combustion
Isocyanates	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Cyanide	During Combustion
Oxides of Nitrogen	During Combustion

5.3. Special protective actions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and 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. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin contact with hot material. For industrial or professional use only. Not for consumer sale or use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
P,P'-DIPHENYLMETHANE	101-68-8	ACGIH	TWA:0.005 ppm	
DIISOCYANATE (MDI)				

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Full Face Shield Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber Neoprene Nitrile Rubber

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

information on basic physical and chemical properties					
Physical state	Solid				
Specific Physical Form:	Waxy Solid				
Colour	White-Yellow				
Odour	Mild Odour				
Odour threshold	No Data Available				
рН	Not Applicable				
Melting point/Freezing point	No Data Available				
Boiling point	> 148.9 °C				
Flash Point	> 148.9 °C				
Evaporation rate	No Data Available				
Flammability (solid, gas)	Not Classified				
Flammable Limits(LEL)	No Data Available				
Flammable Limits(UEL)	No Data Available				
Vapour Pressure	0 Pa [@ 25 °C] [Details:MDI]				
Viscosity/Kinematic Viscosity Viscosity/Kinematic	8.6 [<i>Ref Std</i> :AIR=1] [<i>Details</i> :MDI]				
viscosity/Kinematic viscosity viscosity/Kinematic	0.0 [Ref Sta. AIK 1] [Details. WD1]				
Viscosity/Kinematic Viscosity Viscosity/Kinematic					
	1.16 g/cm3				
Viscosity					
Viscosity Density	1.16 g/cm3				
Viscosity Density Relative density	1.16 g/cm3 1.16 [<i>Ref Std</i> :WATER=1]				
Viscosity Density Relative density Water solubility	1.16 g/cm3 1.16 [Ref Std: WATER=1] Nil				
Viscosity Density Relative density Water solubility Solubility- non-water	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available				
Viscosity Density Relative density Water solubility Solubility- non-water Partition coefficient: n-octanol/ water	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available No Data Available				
Viscosity Density Relative density Water solubility Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available No Data Available No Data Available				
Viscosity Density Relative density Water solubility Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available				
Viscosity Density Relative density Water solubility Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature Viscosity/Kinematic Viscosity	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available				
Viscosity Density Relative density Water solubility Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature Viscosity/Kinematic Viscosity Volatile Organic Compounds	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available				
Viscosity Density Relative density Water solubility Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature Viscosity/Kinematic Viscosity Volatile Organic Compounds Percent volatile	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available No Data Available No Data Available 9,000 mPa-s [@ 121.1 °C] [Test Method:Brookfield]				
Viscosity Density Relative density Water solubility Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature Viscosity/Kinematic Viscosity Volatile Organic Compounds Percent volatile VOC Less H2O & Exempt Solvents	1.16 g/cm3 1.16 [Ref Std:WATER=1] Nil No Data Available No Data Available No Data Available No Data Available 9,000 mPa-s [@ 121.1 °C] [Test Method:Brookfield] 0 g/l [Test Method:calculated SCAQMD rule 443.1]				

Nanoparticles

This material does not contain nanoparticles.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions Hazardous polymerization will not occur.

10.4. Conditions to avoid Heat

10.5. Incompatible materials

Amines

Alcohols

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

10.6. Hazardous decomposition products

<u>Substance</u>

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

Skin Contact:

During heating:

Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction. Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

During heating:

Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

Ingestion:

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

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

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

Additional Information:

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

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Inhalation-		No data available; calculated ATE >50 mg/l
	Vapor(4 hr)		_
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Dermal	Rabbit	LD50 > 5,000 mg/kg
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Ingestion	Rat	LD50 31,600 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	official classifica tion	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	official classifica tion	Severe irritant

Skin Sensitization

Name	Species	Value
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	official	Sensitizing
	classifica	
	tion	

Respiratory Sensitization

Name	Species	Value
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Human	Sensitizing

Germ Cell Mutagenicity

Name	Route	Value
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
P,P'-DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
P,P'- DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
P,P'- DIPHENYLMETHANE DIISOCYANATE (MDI)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the new substance notification

requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

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.

Health: 2 Flammability: 1 Instability: 0 Special Hazards: 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.

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