



Safety Data Sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M™ Scotch-Weld™ Composite Surfacing Film AF 191XS

Product Identification Numbers

87-2500-0163-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Structural adhesive

1.3. Details of the supplier of the safety data sheet

ADDRESS: 3M Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120

Telephone: 09-961 5000

E Mail: innovation.il@mmm.com

Website: www.3M.com/il

1.4. Emergency telephone number

09-961 5000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Germ Cell Mutagenicity, Category 2 - Muta. 2; H341

Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

Warning

Symbols:

GHS08 (Health Hazard) | GHS09 (Environment) |

Pictograms



Ingredients:

Ingredient	C.A.S. No.	EC No.	% by Wt
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	63738-22-7	264-438-6	< 15

HAZARD STATEMENTS:

- H341 Suspected of causing genetic defects.
- H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

- P280E Wear protective gloves.
- P273 Avoid release to the environment.

Disposal:

- P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

- EUH208 Contains N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE. | N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE. May produce an allergic reaction.

Contains 75% of components with unknown hazards to the aquatic environment.

Notes on labelling:

Test data from similar materials indicate that this film does not cause dermal sensitization. Acute lethality classification for CAS 63738-22-7 is based on dust/mist data. Product cannot become aerosolized and hence the classification overridden. Eye irritation not applied due to the nature of this material (ie. film).

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	EC No.	% by Wt	Classification
Alkyl Diamine/Phenolic Epoxy Resin	Trade Secret		30 - 50	Substance not classified as

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				hazardous
COPPER SCREEN	Unknown		15 - 35	Substance not classified as hazardous
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	28768-32-3	249-204-3	10 - 25	**Aquatic Chronic 2**, H411 **Skin Sens. 1**, H317
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	63738-22-7	264-438-6	< 15	**Acute Tox. 3**, H331; **Acute Tox. 4**, H312; **Acute Tox. 4**, H302; **Skin Irrit. 2**, H315; **Eye Dam. 1**, H318; **Skin Sens. 1**, H317; **Muta. 2**, H341
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	201-248-4	1 - 5	**Acute Tox. 4**, H302 **Aquatic Chronic 2**, H411 **STOT SE 2**, H371; **STOT RE 2**, H373

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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:

Wash with soap and water. If you feel unwell, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get 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

Overexposure to this product may result in methemoglobinemia. Methemoglobinemia may be clinically suspected by the presence of clinical "cyanosis" in the presence of a normal PaO₂ (as obtained by arterial blood gases). Routine pulse oximetry may be inaccurate for monitoring oxygen saturation in the presence of methemoglobinemia, and should not be used to make the diagnosis of this disorder. If the patient is symptomatic or if the methemoglobin level is >20%, specific therapy with methylene blue should be considered as part of the medical management.

SECTION 5: Fire-fighting measures**5.1. 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>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion
Oxides of Sulfur	During Combustion
Toxic Vapor, Gas, Particulate	During Combustion

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, 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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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.

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Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	Manufacturer determined	TWA:0.1 mg/m ³	

ACGIH : American Conference of Governmental Industrial Hygienists

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/vapors/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:

Safety Glasses with side shields

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

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 vapors and particulates

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

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Solid
Specific Physical Form:	Film
Appearance/Odor	odorless.
Odor threshold	No Data Available
pH	Not Applicable
Boiling point/boiling range	Not Applicable
Melting point	No Data Available
Flammability (solid, gas)	Not Classified
Explosive properties:	Not Classified
Oxidising properties:	Not Classified
Flash Point	No flash point
Autoignition temperature	No Data Available
Flammable Limits(LEL)	Not Applicable

Flammable Limits(UEL)	<i>Not Applicable</i>
Relative Density	1.1 - 1.2 [@ 21.1 °C] [Ref Std: WATER=1]
Water solubility	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Evaporation rate	<i>Not Applicable</i>
Vapor Density	Negligible
Decomposition temperature	<i>No Data Available</i>
Viscosity	<i>Not Applicable</i>
Density	<i>Not Applicable</i>

9.2. Other information

EU Volatile Organic Compounds	<i>No Data Available</i>
Molecular weight	<i>No Data Available</i>
Percent volatile	Nil

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 may occur.

10.4. Conditions to avoid

Avoid curing large quantities of material to prevent a premature reaction (exotherm) with production of intense heat and smoke.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

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:

May cause additional health effects (see below).

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. May cause additional health effects (see below).

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

May be harmful if swallowed.

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Methemoglobinemia: Signs/symptoms may include headache, dizziness, nausea, difficulty breathing, and generalized weakness.

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

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

Prolonged or repeated exposure may cause target organ effects:

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

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

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.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Contains a chemical or chemicals which may interfere with lactation or be harmful to breastfed children.

Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE 2,000 - 5,000 mg/kg
N,N,N',N'-TETRAGLYCIDYLBIS(P-	Ingestion	Mouse	LD50 > 5,000 mg/kg

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AMINOPHENYL)METHANE			
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	Dermal	Rabbit	LD50 > 3,000 mg/kg
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	Ingestion	Rat	LD50 630 mg/kg
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	Dermal	similar compounds	LD50 estimated to be 1,000 - 2,000 mg/kg
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	Inhalation-Dust/Mist	similar compounds	LC50 estimated to be 0.5 - 1 mg/l
P,P'-DIAMINODIPHENYL SULFONE	Dermal	Rabbit	LD50 > 4,000 mg/kg
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	Rat	LD50 631 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Multiple animal species	Minimal irritation
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	Rabbit	No significant irritation
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	Rabbit	Irritant
P,P'-DIAMINODIPHENYL SULFONE	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	Rabbit	Mild irritant
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	similar compounds	Severe irritant
P,P'-DIAMINODIPHENYL SULFONE	Rabbit	Moderate irritant

Skin Sensitization

Name	Species	Value
Overall product	Guinea pig	Not classified
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	Human and animal	Sensitizing
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	similar compounds	Sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	In Vitro	Some positive data exist, but the data are not sufficient for classification
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	In vivo	Some positive data exist, but the data are not sufficient for classification
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	In vivo	Mutagenic
P,P'-DIAMINODIPHENYL SULFONE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	Multiple animal	Some positive data exist, but the data are not sufficient for classification

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		species	
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Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	Ingestion	Not classified for development	Rat	NOAEL 90 mg/kg/day	during gestation
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	Not classified for development	Mouse	NOAEL 100 mg/kg/day	during organogenesis
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	Toxic to male reproduction	Rat	LOAEL 50 mg/kg/day	6 weeks

Lactation

Name	Route	Species	Value
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	Human	Causes effects on or via lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	blood methemoglobinemia liver	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	central nervous system depression	Not classified	Human	NOAEL Not available	poisoning and/or abuse

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 50 mg/kg/day	13 weeks
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	Ingestion	gastrointestinal tract liver immune system nervous system eyes kidney and/or bladder	Not classified	Rat	NOAEL 200 mg/kg/day	13 weeks
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	blood liver	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	not available
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	immune system	Not classified	Mouse	NOAEL 54 mg/kg/day	30 days
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	heart	Not classified	Human	NOAEL Not available	not available
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	kidney and/or bladder	Not classified	Human	NOAEL Not available	poisoning and/or abuse
P,P'-DIAMINODIPHENYL SULFONE	Ingestion	vascular system	Not classified	Human	NOAEL Not available	not available

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

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available

Material	CAS #	Organism	Type	Exposure	Test Endpoint	Test Result
N,N,N',N'-TETRAGLYCIDYLBI S(P-AMINOPHENYL)METHANE	28768-32-3	Common Carp	Estimated	96 hours	Lethal Concentration 50%	7 mg/l
N,N,N',N'-TETRAGLYCIDYLBI S(P-AMINOPHENYL)METHANE	28768-32-3	Green Algae	Experimental	72 hours	Effect Concentration 50%	>100 mg/l
N,N,N',N'-TETRAGLYCIDYLBI S(P-AMINOPHENYL)METHANE	28768-32-3	Water flea	Experimental	48 hours	Effect Concentration 50%	6.7 mg/l
N,N,N',N'-TETRAGLYCIDYLBI S(P-AMINOPHENYL)METHANE	28768-32-3	Green Algae	Experimental	72 hours	Effect Concentration 10%	0.19 mg/l
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	63738-22-7		Data not available or insufficient for classification			
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	Common Carp	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	Green algae	Experimental	72 hours	Effect Concentration 50%	2.7 mg/l
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	Green algae	Experimental	72 hours	No obs Effect Conc	0.22 mg/l
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	Water flea	Experimental	21 days	No obs Effect Conc	0.22 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	28768-32-3	Experimental Biodegradation	28 days	Biological Oxygen Demand	48 % BOD/ThBOD	OECD 301F - Manometric Respiro
N,N,N',N'-TETRAGLYCIDYL-M-	63738-22-7	Estimated Hydrolysis		Hydrolytic half-life	3.43 days (t 1/2)	Other methods

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XYLENEDIAMINE						
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	63738-22-7	Estimated Biodegradation	28 days	Biological Oxygen Demand	30 % weight	OECD 301F - Manometric Respiro
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	Experimental Biodegradation	28 days	Biological Oxygen Demand	<1 % weight	OECD 301D - Closed Bottle Test

12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
N,N,N',N'-TETRAGLYCIDYLBIS(P-AMINOPHENYL)METHANE	28768-32-3	Estimated BCF - Other		Bioaccumulation Factor	4.4	Est. Bioconcentration factor
N,N,N',N'-TETRAGLYCIDYL-M-XYLENEDIAMINE	63738-22-7	Estimated Bioconcentration		Bioaccumulation Factor	2.5	Est. Bioconcentration factor
P,P'-DIAMINODIPHENYL SULFONE	80-08-0	Experimental Bioconcentration		Log of Octanol/H ₂ O part. coeff	0.97	Other methods

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

EU waste code (product as sold)

080409* Waste adhesives and sealants containing organic solvents or other dangerous substances
200127* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

ADR: UN1845; Carbon dioxid, solid, as coolant.

IATA: UN1845; Carbon dioxid, solid; 9.

IMDG: UN1845; Carbon dioxid, solid, (dry ice), as coolant; (Forbidden for sea except for short european ferry crossings); 9;

FC, SV.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Carcinogenicity****Ingredient**

P,P'-DIAMINODIPHENYL SULFONE

C.A.S. No.

80-08-0

Classification

Gr. 3: Not classifiable

RegulationInternational Agency
for Research on Cancer**Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

SECTION 16: Other information**List of relevant H statements**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Revision information:

Section 02: CLP Ingredient table information was modified.
 Section 02: Label Elements: CLP Percent Unknown information was deleted.
 Section 02: Label Elements: CLP Percent Unknown information was modified.
 Section 03: Composition/ Information of ingredients table information was modified.
 Section 04: First Aid - notes to physician (REACH/GHS) information was modified.
 Section 05: Fire - Advice for fire fighters information information was modified.
 Section 06: Accidental release clean-up information information was modified.
 Section 07: Precautions safe handling information information was modified.
 Section 08: Personal Protection - Skin/hand information information was modified.
 Section 08: Skin protection - recommended gloves information information was modified.
 Section 09: Property description for optional properties information was modified.
 Section 09: Relative density information information was modified.
 Section 09: Viscosity information information was added.
 Section 11: Acute Toxicity table information was modified.
 Section 11: Health Effects - Eye information information was modified.
 Section 11: Prolonged or repeated exposure may cause standard phrases information was modified.
 Section 11: Reproductive and/or Developmental Effects text information was deleted.
 Section 11: Reproductive Toxicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: No PBT/vPvB information available warning information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12: Biocumulative potential information information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 14: Transportation classification information was modified.
Section 15: Regulations - Inventories information was modified.
Section 16: Two-column table displaying the unique list of H Codes and statements (std phrses) for all components of the given material. information was modified.

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