

Safety Data Sheet

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Document group:	09-3094-1	Version number:	12.00
Revision date:	14/02/2023	Supersedes date:	22/06/2021
Transportation versior	number:	-	

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

3M Scotch-Weld DP-610 Crystal Clear Adhesive Kit

Product IdentificationNumbersFS-9100-4041-9UU-0101-3337-7

7000080084 7100200503

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 Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.Telephone:+353 1 280 3555E Mail:tox.uk@mmm.com

Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

09-3074-3, 09-3093-3

TRANSPORTATION INFORMATION

Refer to section 14 of the kit components for transport information.

KIT LABEL

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Acute Toxicity, Category 4 - Acute Tox. 4; H332 Skin Sensitization, Category 1A - Skin Sens. 1A; H317 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements CLP REGULATION (EC) No 1272/2008

SIGNAL WORD WARNING.

Symbols GHS07 (Exclamation mark)

Pictograms



Contains:

Trimethoxyvinylsilane.; Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; hexamethylene-di-isocyanate; HDI oligomers, isocyanurate

HAZARD STATEMENTS:

H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention: P261A P280E	Avoid breathing vapours. Wear protective gloves.
Response: P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
Disposal: P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements				
H317	May cause an allergic skin reaction.			
H412	Harmful to aquatic life with long lasting effects.			
<=125 ml Precautionary stateme	nts			
Prevention: P280E	Wear protective gloves.			
Response: P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.			
Refer to Safety Data Sheet for com	ponent % unknown values (www.3M.com/msds).			
Information required per Regula As from 24 August 2023 adequat be found at feica.eu/Puinfo	ation (EU) 2020/1149 as regards diisocyanates: te training is required before industrial or professional use. Further information can			

Revision information:

Label: CLP Ingredients - kit components information was modified. Section 02: Regulation (EU) 2020/1149 Statement information was added.



Safety Data Sheet

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Document group:	09-3093-3	Version number:	11.03
Revision date:	15/03/2024	Supersedes date:	18/05/2021

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

3M Scotch-Weld[™] Urethane Structural Adhesive DP-610 (Part B)

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 Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.
Telephone:	+353 1 280 3555
E Mail:	tox.uk@mmm.com
Website:	www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Skin Sensitization, Category 1A - Skin Sens. 1A; H317 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements CLP REGULATION (EC) No 1272/2008

SIGNAL WORD WARNING.

Symbols GHS07 (Exclamation mark) |

Pictograms



Ingredients: Ingredient	CAS Nbr	EC No.	% by Wt	
Reaction mass of Bis(1,2,2,6,6-pe piperidyl) sebacate and Methyl 1,7 4-piperidyl sebacate	ntamethyl-4- 2,2,6,6-pentamethyl-	915-687-0	1 - 5	
Trimethoxyvinylsilane	2768-02-7	220-449-8	1 - 5	
HAZARD STATEMENTS: H317	May cause an allergic skin reaction.			
H412	Harmful to aquatic life with long lasting effects.			
PRECAUTIONARY STATEME	NTS			
Prevention: P280E	Wear protective gloves.			
Response: P333 + P313	If skin irritation or rash occurs: Get	medical advice/attention.		
For containers not exceeding 125	ml the following Hazard and Precau	tionary statements may be used:		
<=125 ml Hazard statements H317	May cause an allergic skin reaction.			
H412	Harmful to aquatic life with long lasting effects.			
<=125 ml Precautionary stateme	nts			
Prevention: P280E	Wear protective gloves.			
Response: P333 + P313	If skin irritation or rash occurs: G	et medical advice/attention.		
Contains 58% of components with	unknown hazards to the aquatic enviro	nment.		
2.3. Other hazards				
None known.				

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyester	Trade Secret	40 - 70	Substance not classified as hazardous
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	(CAS-No.) 37625-56-2 (EC-No.) 500-099-5 (REACH-No.) 01- 2119486824-25	15 - 40	Substance not classified as hazardous
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	(EC-No.) 915-687-0 (REACH-No.) 01- 2119491304-40	1 - 5	Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 Skin Sens. 1A, H317 Repr. 2, H361f
Trimethoxyvinylsilane	(CAS-No.) 2768-02-7 (EC-No.) 220-449-8 (REACH-No.) 01- 2119513215-52	1 - 5	Skin Sens. 1B, H317 Flam. Liq. 3, H226 Acute Tox. 4, H332
TRIMETHYLOLPROPANE	(CAS-No.) 77-99-6 (EC-No.) 201-074-9	<= 3	Repr. 2, H361df

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. 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

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, 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

The most important symptoms and effects based on the CLP classification include: Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

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

Substance	<u>Condition</u>
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	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. 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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. 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 physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

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

Do not handle until all safety precautions have been read and understood. Avoid breathing

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. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed.

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

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Derived no effect level (DNEL)

Ingredient	Degradation Product	Population	Human exposure	DNEL
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Tround	Worker	Dermal, Long-term exposure (8 hours), Systemic effects	2.5 mg/kg bw/d
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate		Worker	Dermal, Short-term exposure, Systemic effects	2.5 mg/kg bw/d
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate		Worker	Inhalation, Long-term exposure (8 hours), Systemic effects	2.35 mg/m ³
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate		Worker	Inhalation, Short-term exposure, Systemic effects	2.35 mg/m ³

Predicted no effect concentrations (PNEC)

Ingredient	Degradation	Compartment	PNEC
	Product		
Reaction mass of		Agricultural soil	0.21 mg/kg d.w.
Bis(1,2,2,6,6-pentamethyl-			
4-piperidyl) sebacate and			
Methyl 1,2,2,6,6-			
pentamethyl-4-piperidyl			
sebacate			
Reaction mass of		Freshwater	0.0022 mg/l
Bis(1,2,2,6,6-pentamethyl-			
4-piperidyl) sebacate and			
Methyl 1,2,2,6,6-			
pentamethyl-4-piperidyl			

sebacate		
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Freshwater sediments	1.05 mg/kg d.w.
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Intermittent releases to water	0.009 mg/l
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Marine water	0.00022 mg/l
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Marine water sediments	0.11 mg/kg d.w.
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Sewage Treatment Plant	1 mg/l

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

8.2. Exposure controls

In addition, refer to the annex for more information.

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

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:

Material Polymer laminate Thickness (mm) No data available **Breakthrough Time** No data available

Applicable Norms/Standards Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Liquid.
Colour	Transparent Colorless
Odor	Light Polyester
Odour threshold	No data available.
Melting point/freezing point	Not applicable.
Boiling point/boiling range	No data available.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Flash point	>=100 °C [Test Method:Estimated]
Autoignition temperature	No data available.
Decomposition temperature	No data available.
рН	substance/mixture is non-soluble (in water)
Kinematic Viscosity	25 - 40 mm ² /sec [@ 23 °C]
Water solubility	No data available.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Vapour pressure	No data available.
Density	No data available.
Relative density	1.1 - 1.17 [<i>Ref Std</i> :WATER=1]
Relative Vapour Density	No data available.
Particle Characteristics	Not applicable.

9.2. Other information

9.2.2 Other safety characteristics EU Volatile Organic Compounds Evaporation rate Molecular weight Percent volatile

No data available. No data available. No data available. <=1 %

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials None known.

10.6 Hazardous decomposition products Substance

Condition

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 internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation

No known health effects.

Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

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

Ingestion

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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	Inhalation- Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
e-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Ingestion	Rat	LD50 > 2,000 mg/kg
TRIMETHYLOLPROPANE	Dermal	Rabbit	LD50 > 10,000 mg/kg
TRIMETHYLOLPROPANE	Ingestion	Rat	LD50 > 5,000 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Rat	LD50 3,125 mg/kg
Trimethoxyvinylsilane	Dermal	Rabbit	LD50 3,260 mg/kg
Trimethoxyvinylsilane	Inhalation- Vapour (4 hours)	Rat	LC50 16.8 mg/l
Trimethoxyvinylsilane	Ingestion	Rat	LD50 7,120 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Rabbit	No significant irritation
TRIMETHYLOLPROPANE	Rabbit	No significant irritation
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	Rabbit	Minimal irritation
1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
Trimethoxyvinylsilane	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Rabbit	No significant irritation
TRIMETHYLOLPROPANE	Rabbit	No significant irritation
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	Rabbit	Mild irritant
1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
Trimethoxyvinylsilane	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Mouse	Not classified
TRIMETHYLOLPROPANE	Mouse	Not classified
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	Guinea	Sensitising
1,2,2,6,6-pentamethyl-4-piperidyl sebacate	pig	
Trimethoxyvinylsilane	Guinea	Some positive data exist, but the data are not
	pig	sufficient for classification

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	In Vitro	Not mutagenic
TRIMETHYLOLPROPANE	In Vitro	Not mutagenic
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	In vivo	Not mutagenic
1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	In Vitro	Some positive data exist, but the data are not
1,2,2,6,6-pentamethyl-4-piperidyl sebacate		sufficient for classification
Trimethoxyvinylsilane	In vivo	Not mutagenic
Trimethoxyvinylsilane	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg	during gestation
TRIMETHYLOLPROPANE	Ingestion	Toxic to female reproduction	Rat	NOAEL 2200 ppm in drinking water	2 generation
TRIMETHYLOLPROPANE	Ingestion	Toxic to male reproduction	Rat	NOAEL 2200 ppm in drinking water	2 generation
TRIMETHYLOLPROPANE	Ingestion	Toxic to development	Rat	LOAEL 740 ppm in drinking water	2 generation
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	premating into lactation
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	premating into lactation
Trimethoxyvinylsilane	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Trimethoxyvinylsilane	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Trimethoxyvinylsilane	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Trimethoxyvinylsilane	Inhalation	Not classified for development	Rat	NOAEL 1.8 mg/l	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

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

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
TRIMETHYLOLPROPA NE	Inhalation	heart gastrointestinal tract hematopoietic system liver immune system kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 0.02 mg/l	15 days
TRIMETHYLOLPROPA NE	Inhalation	endocrine system	Not classified		NOAEL 0.02 mg/l	15 days
TRIMETHYLOLPROPA NE	Ingestion	hematopoietic system liver kidney and/or bladder heart skin endocrine system bone, teeth, nails, and/or hair immune system muscles nervous system respiratory system	Not classified	Rat	NOAEL 667 mg/kg/day	90 days
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Ingestion	gastrointestinal tract liver immune system heart endocrine system hematopoietic system nervous system kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
Trimethoxyvinylsilane	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL mg/l	14 weeks
Trimethoxyvinylsilane	Inhalation	hematopoietic system eyes	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
Trimethoxyvinylsilane	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	40 days
Trimethoxyvinylsilane	Ingestion	endocrine system hematopoietic system liver immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	40 days

Specific Target Organ Toxicity - repeated exposure

Aspiration Hazard

For the component/components, either no data is currently available or the data is 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

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	Туре	Exposure	Test endpoint	Test result
ε-Caprolactone,	37625-56-2	Bacteria	Experimental	16 hours	NOEC	670 mg/l
oligomeric reaction			-			
products with						
propylidynetrimethanol						
ε-Caprolactone,	37625-56-2	Green algae	Experimental	72 hours	ErC50	490 mg/l
oligomeric reaction						
products with						
propylidynetrimethanol						
ε-Caprolactone,	37625-56-2	Water flea	Experimental	48 hours	EC50	>900 mg/l
oligomeric reaction						
products with						
propylidynetrimethanol						
ε-Caprolactone,	37625-56-2	Zebra Fish	Experimental	96 hours	LC50	150 mg/l
oligomeric reaction						
products with						
propylidynetrimethanol						
ε-Caprolactone,	37625-56-2	Green algae	Experimental	72 hours	ErC10	240 mg/l
oligomeric reaction						
products with						
propylidynetrimethanol						
Reaction mass of	915-687-0	Activated sludge	Experimental	3 hours	IC50	>=100 mg/l
Bis(1,2,2,6,6-						
pentamethyl-4-						
piperidyl) sebacate and						
Methyl 1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate	015 (07.0			70.1		
Reaction mass of	915-687-0	Green algae	Experimental	/2 hours	ErC50	1.68 mg/l
B1S(1,2,2,6,6-						
pentametnyi-4-						
Mathul 1 2 2 6 6						
nentamethyl 4						
pontanicury1-4-						
Peaction mass of	015 687 0	Zebra Fish	Experimental	96 hours	L C 50	0.9 mg/l
Bis(1,2,2,6,6)	915-087-0		Experimental	90 110015	10.50	0.9 mg/1
nentamethyl_4						
nineridyl) sebacate and						
Methyl 1 2 2 6 6-						
pentamethyl-4-						
piperidyl sebacate						
Reaction mass of	915-687-0	Green algae	Experimental	72 hours	NOEC	0.22 mg/l
Bis(1,2,2,6,6-			I			5
pentamethyl-4-						
piperidyl) sebacate and						
Methyl 1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate						
Reaction mass of	915-687-0	Water flea	Experimental	21 days	NOEC	1 mg/l
Bis(1,2,2,6,6-						
pentamethyl-4-						
piperidyl) sebacate and						
Methyl 1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate	1		1			1

Trimethoxyvinylsilane	2768-02-7	Bacteria	Experimental	5 hours	EC10	1.1 mg/l
Trimethoxyvinylsilane	2768-02-7	Green algae	Experimental	72 hours	EC50	>957 mg/l
Trimethoxyvinylsilane	2768-02-7	Rainbow trout	Experimental	96 hours	LC50	191 mg/l
Trimethoxyvinylsilane	2768-02-7	Water flea	Experimental	48 hours	EC50	169 mg/l
Trimethoxyvinylsilane	2768-02-7	Green algae	Experimental	72 hours	NOEC	957 mg/l
Trimethoxyvinylsilane	2768-02-7	Water flea	Experimental	21 days	NOEC	28 mg/l
TRIMETHYLOLPROP ANE	77-99-6	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
TRIMETHYLOLPROP ANE	77-99-6	Green algae	Experimental	72 hours	EbC50	>1,000 mg/l
TRIMETHYLOLPROP ANE	77-99-6	Invertebrate	Experimental	96 hours	LC50	5,250 mg/l
TRIMETHYLOLPROP ANE	77-99-6	Medaka	Experimental	96 hours	LC50	>1,000 mg/l
TRIMETHYLOLPROP ANE	77-99-6	Sheepshead Minnow	Experimental	96 hours	LC50	14,400 mg/l
TRIMETHYLOLPROP ANE	77-99-6	Water flea	Experimental	48 hours	EC50	13,000 mg/l
TRIMETHYLOLPROP ANE	77-99-6	Water flea	Experimental	21 days	NOEC	>1,000 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
ε-Caprolactone, oligomeric	37625-56-2	Experimental	28 days	CO2 evolution	77 %CO2	OECD 301B - Modified
reaction products with		Biodegradation			evolution/THC	sturm or CO2
propylidynetrimethanol					O2 evolution	
Reaction mass of	915-687-0	Experimental	28 days	Dissolv. Organic	38 %removal	OECD 301E - Modif. OECD
Bis(1,2,2,6,6-pentamethyl-		Biodegradation		Carbon Deplet	of DOC	Screen
4-piperidyl) sebacate and						
Methyl 1,2,2,6,6-						
pentamethyl-4-piperidyl						
sebacate						
Trimethoxyvinylsilane	2768-02-7	Experimental	28 days	BOD	51 %BOD/ThO	OECD 301F - Manometric
		Biodegradation			D	respirometry
TRIMETHYLOLPROPAN	77-99-6	Experimental	28 days	Dissolv. Organic	6 %removal of	
E		Biodegradation		Carbon Deplet	DOC	
TRIMETHYLOLPROPAN	77-99-6	Experimental	28 days	Dissolv. Organic	100 %removal	OECD 302B Zahn-
E		Biodegradation		Carbon Deplet	of DOC	Wellens/EVPA
TRIMETHYLOLPROPAN	77-99-6	Experimental		Hydrolytic half-life	>1 years (t 1/2)	OECD 111 Hydrolysis func
E		Hydrolysis		(pH 7)		of pH

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol	37625-56-2	Experimental Bioconcentration		Log Kow	2.4	OECD 117 log Kow HPLC method
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	915-687-0	Analogous Compound BCF - Fish	56 days	Bioaccumulation factor	31.4	
Trimethoxyvinylsilane	2768-02-7	Estimated Bioconcentration		Log Kow	-2	
TRIMETHYLOLPROPAN E	77-99-6	Experimental BCF - Fish	42 days	Bioaccumulation factor	16.2	OECD305-Bioconcentration

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	915-687-0	Modeled Mobility in Soil	Кос	200,000 l/kg	Episuite™
Trimethoxyvinylsilane	2768-02-7	Estimated Mobility in Soil	Koc	650 l/kg	Episuite™
TRIMETHYLOLPROPAN E	77-99-6	Modeled Mobility in Soil	Koc	1.499 l/kg	Episuite™

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. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. 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 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.

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/EC 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)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.

14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

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 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 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.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2 None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

EU Section 09: pH information information was modified. Section 3: Composition/ Information of ingredients table information was modified. Section 09: Particle Characteristics N/A information was added. Section 9: Vapour density value information was modified. Section 11: Acute Toxicity table information was modified. Section 11: Germ Cell Mutagenicity Table information was modified. Section 11: Reproductive Toxicity Table information was modified. Section 11: Serious Eye Damage/Irritation Table information was modified. Section 11: Skin Corrosion/Irritation Table information was modified. Section 11: Skin Sensitization Table information was modified. Section 11: Target Organs - Repeated Table information was added. Section 11: Target Organs - Repeated Table information was deleted. Section 12: Component ecotoxicity information information was modified. Section 12: Mobility in soil information information was modified. Section 12: Persistence and Degradability information information was modified. Section 12:Bioccumulative potential information information was modified. Section 14 Classification Code - Regulation Data information was modified. Section 14 Control Temperature - Regulation Data information was modified. Section 14 Emergency Temperature - Regulation Data information was modified. Section 14 Hazard Class + Sub Risk - Regulation Data information was modified. Section 14 Multiplier - Main Heading information was deleted. Section 14 Multiplier - Regulation Data information was deleted. Section 14 Other Dangerous Goods - Regulation Data information was modified. Section 14 Packing Group - Regulation Data information was modified. Section 14 Proper Shipping Name information was modified. Section 14 Segregation - Regulation Data information was modified. Section 14 Transport Category - Main Heading information was deleted. Section 14 Transport Category - Regulation Data information was deleted. Section 14 Transport in bulk - Regulation Data information was modified. Section 14 Marine transport in bulk according to IMO instruments - Main Heading information was modified. Section 14 Transport Not Permitted – Main Heading information was deleted. Section 14 Transport Not Permitted - Regulation Data information was deleted.

Section 14 Tunnel Code - Main Heading information was deleted.

Section 14 Tunnel Code – Regulation Data information was deleted. Section 14 UN Number Column data information was modified.

Section 14 UN Number information was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

Section 2: No PBT/vPvB information available warning information was added.

Annex

1. Title	
Substance identification	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; EC No. 915-687-0;
Exposure Scenario Name	Industrial Use of Adhesives
Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 13 -Treatment of articles by dipping and pouring ERC 05 -Use at industrial site leading to inclusion into/onto article
Processes, tasks and activities covered	Dispensing of product with applicator gun.
2. Operational conditions and risk mana	igement measures
Operating Conditions	Physical state:Liquid. General operating conditions: Frequency of exposure at workplace [for one worker]: 8 hours/day; Indoor use;
Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	· · · · · ·
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

1. Title		
Substance identification	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	
	$\Gamma_{2,2,0,0}$ -pentamethyr-4-piperhuyr sebacate,	
Exposure Scenario Name	Professional Use of Adhesives and Sealants	
Lifecycle Stage	Widespread use by professional workers	
Contributing activities	PROC 13 - Treatment of articles by dipping and pouring	
	ERC 08c -Widespread use leading to inclusion into/onto article (indoor)	
Processes, tasks and activities covered	Dispensing of product with applicator gun.	
2. Operational conditions and risk mana	gement measures	
Operating Conditions	Physical state: Liquid.	
	General operating conditions:	
	Frequency of exposure at workplace [for one worker]: Daily;	
	Indoor use;	

Risk management measures	Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed;
Waste management measures	No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:
3. Prediction of exposure	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M Ireland MSDSs are available at www.3M.com



Safety Data Sheet

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Document group:	09-3074-3	Version number:	13.01
Revision date:	15/03/2024	Supersedes date:	10/12/2021

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

3M Scotch-Weld Urethane Structural Adhesive DP-610 (Part A)

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 Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.
Telephone:	+353 1 280 3555
E Mail:	tox.uk@mmm.com
Website:	www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Acute Toxicity, Category 4 - Acute Tox. 4; H332 Skin Sensitization, Category 1 - Skin Sens. 1; H317 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335

For full text of H phrases, see Section 16.

2.2. Label elements CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

WARNING.

Symbols GHS07 (Exclamation mark) |

Pictograms



Ingredients: Ingredient	CAS Nbr	EC No.	% by Wt
HDI oligomers, isocyanurate		931-274-8	95 - 100
hexamethylene-di-isocyanate	822-06-0	212-485-8	< 0.2

HAZARD STATEMENTS:	
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

PRECAUTIONARY STATEMENTS

Prevention:	
P280E	Wear protective gloves

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements	
H317	May cause an allergic skin reaction.

<=125 ml Precautionary statements

Prevention: P280E

Wear protective gloves.

Information required per Regulation (EU) 2020/1149 as regards diisocyanates: As from 24 August 2023 adequate training is required before industrial or professional use. Further information can be found at feica.eu/Puinfo

2.3. Other hazards

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates. This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HDI oligomers, isocyanurate	(EC-No.) 931-274-8 (REACH-No.) 01- 2119485796-17	95 - 100	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335
hexamethylene-di-isocyanate	(CAS-No.) 822-06-0 (EC-No.) 212-485-8	< 0.2	Resp. Sens. 1A, H334 Skin Sens. 1A, H317 STOT SE 3, H335 Nota 2 Acute Tox. 1, H330 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
hexamethylene-di-isocyanate	(CAS-No.) 822-06-0 (EC-No.) 212-485-8	(C >= 0.5%) Resp. Sens. 1A, H334 (C >= 0.5%) Skin Sens. 1A, H317

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

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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

The most important symptoms and effects based on the CLP classification include: Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Harmful if inhaled. Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide 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>
Isocyanates	During combustion
Carbon monoxide	During combustion
Carbon dioxide.	During combustion
Hydrogen cyanide.	During combustion
Oxides of nitrogen.	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. 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

Contain spill. 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 physical, health, or environmental hazard. 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 with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Dispose of collected material as soon as possible.

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

Do not use in a confined area with minimal air exchange. Avoid breathing 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. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. 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 strong bases. Store away from amines.

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.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Free isocyanates	822-06-0	Ireland OELs	TWA(8 hours):0.02	as NCO
-			mg/m3;STEL(15 minutes):0.07	
			mg/m3	
hexamethylene-di-isocyanate	822-06-0	Ireland OELs	TWA(8 hours):0.005 ppm	as NCO
Ireland OELs : Ireland. OELs			· · · ·	
TWA: Time-Weighted-Average				
STEL: Short Term Exposure Limit				
CEIL: Ceiling				

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Derived no effect level (DNEL)

Ingredient	Degradation	Population	Human exposure	DNEL
	Product		pattern	
HDI oligomers,		Worker	Inhalation, Long-term	0.5 mg/m ³
isocyanurate			exposure (8 hours), Local	_
-			effects	
HDI oligomers,		Worker	Inhalation, Short-term	1 mg/m^3
isocyanurate			exposure, Local effects	-

Predicted no effect concentrations (PNEC)

Ingredient	Degradation Product	Compartment	PNEC	
HDI oligomers,		Agricultural soil	53,182 mg/kg d.w.	
isocyanurate			, , , , , , , , , , , , , , , , , , , ,	
HDI oligomers,		Freshwater	0.127 mg/l	
isocyanurate				
HDI oligomers,		Freshwater sediments	266,700 mg/kg d.w.	
isocyanurate				
HDI oligomers,		Intermittent releases to water	1.27 mg/l	
isocyanurate				
HDI oligomers,		Marine water	0.0127 mg/l	
isocyanurate				
HDI oligomers,		Marine water sediments	26,670 mg/kg d.w.	
isocyanurate				
HDI oligomers,		Sewage Treatment Plant	38.3 mg/l	
isocyanurate				

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

8.2. Exposure controls

In addition, refer to the annex for more information.

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

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:

Material Butyl rubber. Polyethylene **Thickness (mm)** No data available No data available **Breakthrough Time** No data available No data available

Applicable Norms/Standards Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber Apron – Polyethylene

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.

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136: filter types A & P

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.	
Specific Physical Form:	Thin liquid.	
Colour	Transparent Colorless	
Odor	Isocyanate	
Odour threshold	No data available.	
Melting point/freezing point	-51 °C	
Boiling point/boiling range	approximately 230 No data available.	

Flammability (solid, gas)	Not applicable.		
Flammable Limits(LEL)	No data available.		
Flammable Limits(UEL)	No data available.		
Flash point	>=100 °C [Test Method:Closed Cup]		
Autoignition temperature	Not applicable.		
Decomposition temperature	No data available.		
рН	substance/mixture is non-soluble (in water)		
Kinematic Viscosity	2,564 mm ² /sec		
Water solubility	Nil		
Solubility- non-water	Nil		
Partition coefficient: n-octanol/water	9.81		
Vapour pressure	No data available.		
Density	1.17 g/cm3 [@ 20 °C]		
Relative density	1.17 [<i>Ref Std</i> :WATER=1]		
Relative Vapour Density	No data available.		
Particle Characteristics	Not applicable.		

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	No data available.
Evaporation rate	No data available.
Molecular weight	No data available.
Percent volatile	No data available.

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 polymerisation will not occur.

10.4 Conditions to avoid Heat.

10.5 Incompatible materials

Alcohols. Amines. Strong bases. Water

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 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 internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation

Harmful if inhaled. 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.

Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

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

Ingestion

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

Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation 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
HDI oligomers, isocyanurate	Inhalation-	Professio	LC50 estimated to be 1 - 5 mg/l
	Dust/Mist	nal	-
		judgeme	
		nt	
HDI oligomers, isocyanurate	Dermal	Rabbit	LD50 > 5,000 mg/kg
HDI oligomers, isocyanurate	Ingestion	Rat	LD50 > 5,000 mg/kg
hexamethylene-di-isocyanate	Dermal	Rat	LD50 > 7,000 mg/kg
hexamethylene-di-isocyanate	Inhalation-	Rat	LC50 0.124 mg/l
	Dust/Mist		-
	(4 hours)		
hexamethylene-di-isocyanate	Inhalation-	Rat	LC50 0.124 mg/l
	Vapour (4		
	hours)		
hexamethylene-di-isocyanate	Ingestion	Rat	LD50 710 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
HDI oligomers, isocyanurate	Rabbit	Minimal irritation

hexamethylene-di-isocyanate	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
HDI oligomers, isocyanurate	Rabbit	Mild irritant
hexamethylene-di-isocyanate	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
HDI oligomers, isocyanurate	Guinea	Sensitising
	pig	
hexamethylene-di-isocyanate	Multiple	Sensitising
	animal	
	species	

Respiratory Sensitisation

Name	Species	Value
HDI oligomers, isocyanurate	similar	Not classified
	compoun	
	ds	
hexamethylene-di-isocyanate	Human	Sensitising
	and	
	animal	

Germ Cell Mutagenicity

Name	Route	Value
HDI oligomers, isocyanurate	In Vitro	Not mutagenic
HDI oligomers, isocyanurate	In vivo	Not mutagenic
hexamethylene-di-isocyanate	In Vitro	Not mutagenic
hexamethylene-di-isocyanate	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value				
hexamethylene-di-isocyanate	Inhalation	Rat	Not carcinogenic				

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure
					Duration
hexamethylene-di-isocyanate	Inhalation	Not classified for female reproduction	Rat	NOAEL	7 weeks
				0.002 mg/l	
hexamethylene-di-isocyanate	Inhalation	Not classified for development	Rat	NOAEL	7 weeks
				0.002 mg/l	
hexamethylene-di-isocyanate	Inhalation	Not classified for male reproduction	Rat	NOAEL	4 weeks
				0.014 mg/l	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure
						Duration
HDI oligomers,	Inhalation	respiratory irritation	May cause respiratory irritation		NOAEL Not	
isocyanurate					available	
hexamethylene-di-	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not	
isocyanate				and	available	

				animal		
hexamethylene-di-	Inhalation	blood	Not classified	Human	NOAEL Not	occupational
isocyanate					available	exposure

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
HDI oligomers, isocyanurate	Inhalation	immune system blood	Not classified	Rat	NOAEL 0.084 mg/l	2 weeks
hexamethylene-di- isocyanate	Inhalation	liver kidney and/or bladder	Not classified	Rat	NOAEL 0.002 mg/l	3 weeks
hexamethylene-di- isocyanate	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.0014 mg/l	4 weeks
hexamethylene-di- isocyanate	Inhalation	blood	Not classified	Rat	NOAEL 0.0012 mg/l	2 years
hexamethylene-di- isocyanate	Inhalation	nervous system	Not classified	Rat	NOAEL 0.002 mg/l	7 weeks
hexamethylene-di- isocyanate	Inhalation	heart	Not classified	Rat	NOAEL 0.001 mg/l	90 days

Aspiration Hazard

For the component/components, either no data is currently available or the data is 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

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	Туре	Exposure	Test endpoint	Test result
hexamethylene-di- isocyanate	822-06-0	Green algae	Estimated	96 hours	EC50	14.8 mg/l
hexamethylene-di- isocyanate	822-06-0	Medaka	Estimated	96 hours	LC50	71 mg/l
hexamethylene-di- isocyanate	822-06-0	Water flea	Estimated	48 hours	EC50	27 mg/l
hexamethylene-di- isocyanate	822-06-0	Activated sludge	Experimental	3 hours	EC50	842 mg/l
hexamethylene-di- isocyanate	822-06-0	Green algae	Estimated	72 hours	NOEC	10 mg/l
hexamethylene-di- isocyanate	822-06-0	Water flea	Estimated	21 days	NOEC	4.2 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
hexamethylene-di-	822-06-0	Estimated	28 days	BOD	82 %BOD/ThO	OECD 301D - Closed bottle
isocyanate		Biodegradation	-		D	test

hexamethylene-di-	822-06-0	Experimental	Hydrolytic half-life	5 minutes (t	
isocyanate		Hydrolysis		1/2)	

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
hexamethylene-di-	822-06-0	Estimated		Log Kow	0.02	
isocyanate		Bioconcentration				

12.4. Mobility in soil

No test data available.

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. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. 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 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.

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/EC 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)

08 04 09*	Waste adhesives and sealants containing organic solvents or other dangerous substances
080501*	Waste isocyanates
20 01 27*	Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.

14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

 Ingredient
 CAS Nbr

 hexamethylene-di-isocyanate
 822-06-0

 Restriction status: listed in REACH Annex XVII
 822-06-0

 Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional 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 Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional 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.

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Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of		
		Lower-tier requirements	Upper-tier requirements	
hexamethylene-di-isocyanate	822-06-0	50	200	

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Revision information:

Section 1: Product use information information was modified.

CLP: Ingredient table information was modified.

- Section 3: Composition/ Information of ingredients table information was modified.
- Section 4: First aid for eye contact information information was modified.
- Section 8: Occupational exposure limit table information was added.
- Section 8: Occupational exposure limit table information was modified.
- OEL Reg Agency Desc information was added.
- Section 8: STEL key information was added.
- Section 8: TWA key information was added.
- Section 09: Kinematic Viscosity information information was modified.

Section 09: Particle Characteristics N/A information was added.

- Section 9: Vapour density value information was modified.
- Section 11: Target Organs Repeated Table information was added.
- Section 11: Target Organs Repeated Table information was deleted.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

Section 14 Marine transport in bulk according to IMO instruments - Main Heading information was modified.

Section 14 UN Number information was modified.

Section 15: Restrictions on manufacture ingredients information information was added.

Section 2: No PBT/vPvB information available warning information was added.

Annex

1. Title		
Substance identification	HDI oligomers, isocyanurate;	
	EC No. 931-274-8;	
Exposure Scenario Name	Industrial Use of Adhesives	
Lifecycle Stage	Use at industrial sites	
Contributing activities	PROC 13 -Treatment of articles by dipping and pouring	
	ERC 05 -Use at industrial site leading to inclusion into/onto article	
Processes, tasks and activities covered	Application of product with applicator gun.	
2. Operational conditions and risk mana	gement measures	
Operating Conditions	Physical state: Liquid.	
	General operating conditions:	
	Duration of exposure per day at workplace [for one worker]: 8 hours/day;	
	Indoor use with Local Exhaust Ventilation;	
	Processing Temperature:: < 40 degree Celsius;	
Risk management measures	Under the operational conditions described above the following risk management	
	measures apply:	
	General risk management measures:	
	Human health:	
	Full-facepiece air-purifying respirator;	
	Provide a good standard of general ventilation (not less than 3 to 5 air changes per	
	noui), Environmontal:	
	None needed	
	De not anote into draine dianance of this material and its container at home days on	
waste management measures	Do not empty into drains, dispose of this material and its container at nazardous or	
	Do not release to waterways or cowers:	
	Incinerate in a permitted hazardous waste incinerator:	
	nomerate in a permitted nazardous waste memerater,	
3. Prediction of exposure	1	
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and	
·	PNECs when the identified risk management measures are adopted.	

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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