



Safety Data Sheet

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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 Scotchkote Urethane Roof Coating SD 650 (For Mid Grey) (Part A)

Product identification numbers

GR-2001-4024-6

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

Identified uses

Elastomeric roof coating

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Indication of danger

Dangerous to environment.

Harmful.

Flammable

Sensitising

Toxic for reproduction (Category 3).

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

3M Scotchkote Urethane Roof Coating SD 650 (For Mid Grey) (Part A)**Symbols**

Xn	Harmful.
N	Dangerous to environment.

Contains:

2-Octyl-2H-isothiazol-3-one; 2-ethylhexyl (6-isocyanatohexyl)-carbamate; 1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate; Phenol, isopropylated, phosphate (3:1)

Risk phrases

R10	Flammable.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety phrases

S16	Keep away from sources of ignition - No Smoking.
S23C	Do not breathe vapour or spray.
S51	Use only in well ventilated areas.
S36/37	Wear suitable protective clothing and gloves.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Aluminium hydroxide	21645-51-2	EINECS 1344-28-1	20 - 30	
1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	140921-24-0	EINECS 411-700-4	15 - 25	R43 (EU) Skin Sens. 1, H317 (CLP)
Phenol, isopropylated, phosphate (3:1)	68937-41-7	EINECS 273-066-3	5 - 15	Repr.Cat.3:R62; Repr.Cat.3:R63 (Vendor) R52 (Self Classified) Repr. 2, H361df (Vendor)
2-ethylhexyl (6-isocyanatohexyl)-carbamate	26488-60-8	EINECS 247-735-5	5 - 10	R43 (Vendor) Skin Sens. 1, H317 (Vendor)
Barium sulphate	7727-43-7	EINECS 231-784-4	5 - 10	
Triphenyl phosphate	115-86-6	EINECS 204-112-2	1 - 10	N:R50 (Self Classified) Aquatic Acute 1, H400,M=1 (Self Classified)
Xylene	1330-20-7	EINECS 215-535-7	5 - 10	Xn:R20-21; Xi:R38; R10 - Nota C (EU) Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 - Nota C

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				(CLP)
Non-hazardous ingredients	Mixture		1 - 5	
Titanium dioxide	13463-67-7	EINECS 236-675-5	1 - 5	
Ethylbenzene	100-41-4	EINECS 202-849-4	1 - 5	F:R11; Xn:R20 (EU) Flam. Liq. 2, H225; Acute Tox. 4, H332 (CLP)
2,2,4-Trimethylpentane	540-84-1	EINECS 208-759-1	< 1	F:R11; Xn:R65; Xi:R38; N:R50/53; R67 - Nota 4,C (EU) Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 - Nota C (CLP)
2-Octyl-2H-isothiazol-3-one	26530-20-1	EINECS 247-761-7	< 0.1	T:R23-24; C:R34; Xn:R22; N:R50/53; R43 (EU) Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400,M=100; Aquatic Chronic 1, H410,M=100 (CLP)
Carbendazim	10605-21-7	EINECS 234-232-0	< 0.1	Muta.Cat.2:R46; Repr.Cat.2:R60; Repr.Cat.2:R61; N:R50/53 (EU) Muta. 1B, H340; Repr. 1B, H360DF; Aquatic Acute 1, H400,M=100; Aquatic Chronic 1, H410,M=100 (CLP)

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

Please refer to section 15 for the any applicable Notas that have been applied to the above components

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****Eye contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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.

Inhalation

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

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids or gases such as dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. 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

3M Scotchkote Urethane Roof Coating SD 650 (For Mid Grey) (Part A)

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Do not use in a confined area or areas with little or no air movement. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Wear low static or properly grounded shoes. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from heat. Store away from oxidising agents. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethylbenzene	100-41-4	Health and Safety Comm. (UK)	TWA:441 mg/m ³ (100 ppm);STEL:552 mg/m ³ (125 ppm)	Skin Notation
Triphenyl phosphate	115-86-6	Health and Safety Comm. (UK)	TWA:3 mg/m ³ ;STEL:6 mg/m ³	
Xylene	1330-20-7	Health and Safety Comm. (UK)	TWA:220 mg/m ³ (50 ppm);STEL:441 mg/m ³ (100 ppm)	Skin Notation
Titanium dioxide	13463-67-7	Health and Safety Comm. (UK)	TWA(Inhalable):10 mg/m ³ ;TWA(respirable):4 mg/m ³	
Barium sulphate	7727-43-7	Health and Safety Comm. (UK)	TWA(as inhalable dust):10 mg/m ³ ;TWA(as respirable dust):4 mg/m ³	

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CELL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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Wear eye/face protection.

The following eye protection(s) are recommended: Safety glasses with side shields.

Skin/hand protection

Wear protective gloves.

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

The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Viscous.
Appearance/Odour	White colour; aromatic odour
pH	<i>No data available.</i>
Boiling point/boiling range	137 °C
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Flammable liquid: Category 3.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	23 °C [<i>Test Method</i> :Closed Cup]
Autoignition temperature	315 °C
Flammable Limits(LEL)	1 % volume
Flammable Limits(UEL)	7 % volume
Vapour pressure	4,999.6 Pa [<i>@</i> 38 °C]
Relative density	1.43 [<i>Ref Std</i> :WATER=1]
Water solubility	Negligible
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	1.43 g/ml

9.2. Other information

Volatile organic compounds (VOC)	100 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :EU Directive 2004/42/EC annex IIA (j) <500 g/l (from 1.1.2010)]
Percent volatile	9.873 % weight

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

Sparks and/or flames.

Temperatures above the boiling point.

Heat.

10.5 Incompatible materials

Alcohols.

Combustibles.

Strong acids.

Strong oxidising agents.

Moisture.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.	
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SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Eye contact

Vapours released during curing may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin contact

Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.

Ingestion

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

Target Organ Effects:

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

Prolonged or repeated exposure may cause:

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Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Reproductive/Developmental Toxicity:

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg	Not classified (% unknown)
Aluminium hydroxide	Dermal		LD50 estimated to be > 5,000 mg/kg	Not classified
Aluminium hydroxide	Ingestion	Rat	LD50 > 5,000 mg/kg	Not classified
1,6-Hexanediy1-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	Dermal		estimated to be > 5,000 mg/kg	Not classified
1,6-Hexanediy1-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	Inhalation-Dust/Mist		estimated to be > 13 mg/l	Not classified
1,6-Hexanediy1-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	Inhalation-Vapor		estimated to be > 50 mg/l	Not classified
1,6-Hexanediy1-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	Ingestion		estimated to be > 5,000 mg/kg	Not classified
Phenol, isopropylated, phosphate (3:1)			No data available	
Barium sulphate	Ingestion	Rat	LD50 > 15,000 mg/kg	Not classified
Xylene	Dermal	Rabbit	LD50 > 4,300 mg/kg	Category5
Xylene	Inhalation-Vapor (4 hours)	Rat	LC50 28 mg/l	Category5
Xylene	Ingestion	Rat	LD50 3,523 mg/kg	Category5
2-ethylhexyl (6-isocyanatohexyl)-carbamate			No data available	
Triphenyl phosphate	Dermal	Rabbit	LD50 > 7,900 mg/kg	Not classified
Triphenyl phosphate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 50 mg/l	Not classified
Triphenyl phosphate	Ingestion	Rat	LD50 > 3,000 mg/kg	Not classified
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg	Not classified
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 7 mg/l	Category5
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg	Not classified
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg	Not classified
Ethylbenzene	Inhalation-Vapor (4 hours)	Rat	LC50 17 mg/l	Category4
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg	Category5
2,2,4-Trimethylpentane	Dermal	Rabbit	LD50 > 2,000 mg/kg	Not classified
2,2,4-Trimethylpentane	Inhalation-Vapor	Rat	LC50 > 35 mg/l	Category5

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	(4 hours)			
2,2,4-Trimethylpentane	Ingestion	Rat	LD50 > 5,000 mg/kg	Not classified
2-Octyl-2H-isothiazol-3-one			No data available	
Carbendazim	Dermal		estimated to be > 5,000 mg/kg	Not classified
Carbendazim	Inhalation-Dust/Mist		estimated to be > 13 mg/l	Not classified
Carbendazim	Inhalation-Vapor		estimated to be > 50 mg/l	Not classified
Carbendazim	Ingestion		estimated to be > 5,000 mg/kg	Not classified

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
Aluminium hydroxide	Rabbit	No significant irritation	Not classified
1,6-Hexanediy1-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate		No data available	
Phenol, isopropylated, phosphate (3:1)		No data available	
Barium sulphate		No data available	
Xylene		Mild irritant	Category 3
2-ethylhexyl (6-isocyanatohexyl)-carbamate		No data available	
Triphenyl phosphate		No data available	
Titanium dioxide		No significant irritation	Not classified
Ethylbenzene		Mild irritant	Category 3
2,2,4-Trimethylpentane		Minimal irritation	Not classified
2-Octyl-2H-isothiazol-3-one		No data available	
Carbendazim		No data available	

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
Aluminium hydroxide	Rabbit	No significant irritation	Not classified
1,6-Hexanediy1-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate		No data available	
Phenol, isopropylated, phosphate (3:1)		No data available	
Barium sulphate		No data available	
Xylene		Mild irritant	Not classified
2-ethylhexyl (6-isocyanatohexyl)-carbamate		No data available	
Triphenyl phosphate		No data available	
Titanium dioxide		Mild irritant	Not classified
Ethylbenzene		Moderate irritant	Category 2B
2,2,4-Trimethylpentane		Mild irritant	Not classified
2-Octyl-2H-isothiazol-3-one		No data available	
Carbendazim		No data available	

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Category 1 based on component data
Aluminium hydroxide	Guinea pig	Not sensitizing	Not classified
1,6-Hexanediy1-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate		No data available	
Phenol, isopropylated, phosphate (3:1)		No data available	

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Barium sulphate		No data available	
Xylene		No data available	
2-ethylhexyl (6-isocyanatohexyl)-carbamate		No data available	
Triphenyl phosphate		No data available	
Titanium dioxide		Not sensitizing	Not classified
Ethylbenzene		Not sensitizing	Not classified
2,2,4-Trimethylpentane		Not sensitizing	Not classified
2-Octyl-2H-isothiazol-3-one		No data available	
Carbendazim		No data available	

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Aluminium hydroxide		No data available	
1,6-Hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate		No data available	
Phenol, isopropylated, phosphate (3:1)		No data available	
Barium sulphate		No data available	
Xylene		No data available	
2-ethylhexyl (6-isocyanatohexyl)-carbamate		No data available	
Triphenyl phosphate		No data available	
Titanium dioxide		No data available	
Ethylbenzene		No data available	
2,2,4-Trimethylpentane		No data available	
2-Octyl-2H-isothiazol-3-one		No data available	
Carbendazim		No data available	

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Aluminium hydroxide		No data available	
1,6-Hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate		No data available	
Phenol, isopropylated, phosphate (3:1)		No data available	
Barium sulphate		No data available	
Xylene	In Vitro	Not mutagenic	Not classified
Xylene	In vivo	Not mutagenic	Not classified
2-ethylhexyl (6-isocyanatohexyl)-carbamate		No data available	
Triphenyl phosphate		No data available	
Titanium dioxide	In Vitro	Not mutagenic	Not classified
Titanium dioxide	Ingestion	Not mutagenic	Not classified
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified
2,2,4-Trimethylpentane	Ingestion	Not mutagenic	Not classified
2,2,4-Trimethylpentane	Inhalation	Not mutagenic	Not classified
2,2,4-Trimethylpentane	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified
2-Octyl-2H-isothiazol-3-one		No data available	
Carbendazim		No data available	

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data

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Aluminium hydroxide	Not specified.	Multiple animal species	Not carcinogenic	Not classified
1,6-Hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate			No data available	
Phenol, isopropylated, phosphate (3:1)			No data available	
Barium sulphate			No data available	
Xylene	Dermal		Not carcinogenic	Not classified
Xylene	Ingestion		Not carcinogenic	Not classified
Xylene	Inhalation		Some positive data exist, but the data are not sufficient for classification	Not classified
2-ethylhexyl (6-isocyanatoethyl)-carbamate			No data available	
Triphenyl phosphate			No data available	
Titanium dioxide	Ingestion		Not carcinogenic	Not classified
Titanium dioxide	Inhalation		Some positive data exist, but the data are not sufficient for classification	Not classified
Ethylbenzene	Inhalation		Carcinogenic.	Category 2
2,2,4-Trimethylpentane			No data available	
2-Octyl-2H-isothiazol-3-one			No data available	
Carbendazim			No data available	

Reproductive Toxicity
Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		Toxic to reproduction and/or development				Overall Reproductive Toxicity classification Category 2 based on component data
Aluminium hydroxide	Ingestion	Not toxic to development	Rat	NOAEL 768 mg/kg/day	during organogenesis	
1,6-Hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate		No data available				
Phenol, isopropylated, phosphate (3:1)		No data available				
Barium sulphate		No data available				
Xylene	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOAEL 2,060 mg/kg/day		
Xylene	Inhalation	Some positive reproductive/developmental data exist, but the data are not		NOAEL N/A		

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		sufficient for classification				
2-ethylhexyl (6-isocyanatohexyl)-carbamate		No data available				
Triphenyl phosphate		No data available				
Titanium dioxide		No data available				
Ethylbenzene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 0.43 mg/l		
2,2,4-Trimethylpentane	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 1.9 mg/l		
2-Octyl-2H-isothiazol-3-one		No data available				
Carbendazim		No data available				

Lactation

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Xylene	Ingestion		Does not cause effects on or via lactation	Not classified

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 1 based on component data
Aluminium hydroxide			No data available				
1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate			No data available				
Phenol, isopropylated, phosphate (3:1)			No data available				
Barium sulphate			No data available				
Xylene	Inhalation	auditory system	Causes damage to organs		LOAEL 6.3 mg/l		Category 1
Xylene	Inhalation	central nervous	May cause drowsiness or		LOAEL 0.43 mg/l		Category 3

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		system depression	dizziness				
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Xylene	Inhalation	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL 3.5 mg/l		Not classified
Xylene	Inhalation	nervous system	All data are negative		NOAEL 0.65 mg/l		Not classified
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Xylene	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL 125 mg/kg		Not classified
2-ethylhexyl (6-isocyanatohexyl)-carbamate			No data available				
Triphenyl phosphate			No data available				
Titanium dioxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.43 mg/l		Category 3
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
2,2,4-Trimethylpentane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
2,2,4-Trimethylpentane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
2,2,4-Trimethylpentane	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3

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2-Octyl-2H-isothiazol-3-one			No data available				
Carbendazim			No data available				

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 1 based on component data
1,6-Hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate			No data available				
Phenol, isopropylated, phosphate (3:1)			No data available				
Barium sulphate			No data available				
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.4 mg/l		Category 1
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure		LOAEL 7.8 mg/l		Category 2
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Xylene	Inhalation	heart endocrine system hematopoietic system muscles kidney and/or bladder respiratory system	All data are negative		NOAEL 3.5 mg/l		Not classified
Xylene	Ingestion	auditory system	Some positive data exist, but the data are not sufficient for classification		LOEL 900 mg/kg/day		Not classified
Xylene	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Xylene	Ingestion	heart skin endocrine system bone, teeth,	All data are negative		NOAEL 1,000 mg/kg/day		Not classified

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		nails, and/or hair hematopoie tic system immune system nervous system respiratory system					
2-ethylhexyl (6- isocyanatohex yl)-carbamate			No data available				
Triphenyl phosphate			No data available				
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 10 mg/m3		Not classified
Titanium dioxide	Inhalation	pulmonary fibrosis	All data are negative		NOAEL N/A		Not classified
Ethylbenzene	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOAEL 1.1 mg/l		Not classified
Ethylbenzene	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.3 mg/l		Not classified
Ethylbenzene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.32 mg/l		Not classified
Ethylbenzene	Inhalation	hematopoie tic system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.6 mg/l		Not classified
Ethylbenzene	Inhalation	heart	All data are negative		NOAEL 3.2 mg/l		Not classified
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair	All data are negative		NOAEL 4.2 mg/l		Not classified
Ethylbenzene	Inhalation	immune system	All data are negative		NOAEL 3.2 mg/l		Not classified
Ethylbenzene	Inhalation	muscles	All data are negative		NOAEL 4.2 mg/l		Not classified
Ethylbenzene	Inhalation	respiratory system	All data are negative		NOAEL 3.2 mg/l		Not classified
Ethylbenzene	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 136 mg/kg/day		Not classified
Ethylbenzene	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 136 mg/kg		Not classified
2,2,4- Trimethylpent ane	Inhalation	hematopoie tic system	Some positive data exist, but the data are not sufficient		LOEL 1.9 mg/l		Not classified

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			for classification			
2,2,4-Trimethylpentane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 0.2 mg/l	Not classified
2,2,4-Trimethylpentane	Ingestion	liver	May cause damage to organs though prolonged or repeated exposure		LOAEL 350 mg/kg	Category 2
2,2,4-Trimethylpentane	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	Not classified
2-Octyl-2H-isothiazol-3-one			No data available			
Carbendazim			No data available			

Aspiration Hazard

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Aluminium hydroxide	Not an aspiration hazard	Not classified
1,6-Hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	Not an aspiration hazard	Not classified
Phenol, isopropylated, phosphate (3:1)	Not an aspiration hazard	Not classified
Barium sulphate	Not an aspiration hazard	Not classified
Xylene	Aspiration hazard	Category 1
2-ethylhexyl (6-isocyanatoethyl)-carbamate	Not an aspiration hazard	Not classified
Triphenyl phosphate	Not an aspiration hazard	Not classified
Titanium dioxide	Not an aspiration hazard	Not classified
Ethylbenzene	Aspiration hazard	Category 1
2,2,4-Trimethylpentane	Aspiration hazard	Category 1
2-Octyl-2H-isothiazol-3-one	Not an aspiration hazard	Not classified
Carbendazim	Not an aspiration hazard	Not classified

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 be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity**Acute aquatic hazard:**

GHS Acute 2: Toxic to aquatic life with long lasting effects.

Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

No component test data available.

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12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

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

Incinerate in a permitted waste incineration facility. Dispose of waste product in a permitted industrial waste facility. 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

SECTION 14: Transportation information

GR-2001-4024-6

ADR/RID: UN1263, PAINT RELATED MATERIAL, LIMITED QUANTITY, 3., III, (--), ADR Classification Code: F1.

IMDG-CODE: UN1263, PAINT RELATED MATERIAL, (CONTAINS TRIPHENYL PHOSPHATE), 3, III, LIMITED QUANTITY, EMS: FE, SE.

ICAO/IATA: UN1263, PAINT RELATED MATERIAL, 3., III.

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient
Ethylbenzene

CAS Nbr
100-41-4

Classification
Grp. 2B: Possible human
carc.

Regulation
International Agency
for Research on Cancer

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Titanium dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Xylene	1330-20-7	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H360DF	May damage fertility. May damage the unborn child.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

List of relevant R-phrases

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R24	Toxic in contact with skin.
R34	Causes burns.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R46	May cause heritable genetic damage.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R60	May impair fertility.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R65	Harmful: May cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

Revision information:

No revision information is available.

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.

3M United Kingdom MSDSs are available at www.3M.com/uk