



Safety Data Sheet

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Document group:	29-4098-9	Version number:	1.01
Revision date:	15/02/2012	Supersedes date:	24/10/2011
Transportation version 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 Scotchkote Urethane Elastomer SS441 Paste Kit (Grey) (5X1KG)

Product identification numbers

GR-2001-2203-8

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

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

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:

29-1473-7, 28-3958-7, 29-1401-8

TRANSPORTATION INFORMATION

KIT LABEL

2.2. Label elements

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

Symbols

F Highly flammable.

3M Scotchkote Urethane Elastomer SS441 Paste Kit (Grey) (5X1KG)
--

Xn Harmful.
N Dangerous to environment.

Contains:

Consult the component labels for disclosable ingredients.

Risk phrases

R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R42/43 May cause sensitisation by inhalation and skin contact.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R40 Limited evidence of a carcinogenic effect.
R50/53 Very 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.
S23A Do not breathe vapour.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Special provisions concerning the labelling of certain substances

Contains isocyanates. See information supplied by manufacturer.

Revision information:

Revision Changes:

Kit: Component document group number(s) was modified.

Copyright was modified.

Section 1: Initial issue message was modified.



Safety Data Sheet

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Document group:	28-3958-7	Version number:	3.00
Revision date:	23/04/2013	Supersedes date:	01/08/2012
Transportation version number:	3.00 (09/12/2010)		

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 Elastomer SS 441 Paste, Grey (Part B)

Product identification numbers

GR-2001-1540-4

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

Identified uses

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

Harmful; Xn; R21/22

Irritant; Xi; R36

Harmful; Xn; R48/22

Dangerous for the environment; N; R50/53

For full text of R phrases, see Section 16.

2.2. Label elements

3M Scotchkote Urethane Elastomer SS 441 Paste, Grey (Part B)

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

Symbol(s)



Harmful



Dangerous
for the
environment

Contains:

Diethylmethylbenzenediamine

Risk phrases

R21/22 Harmful in contact with skin and if swallowed.
R36 Irritating to eyes.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety phrases

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

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Titanium dioxide	13463-67-7	EINECS 236-675-5	30 - 40	
Diethylmethylbenzenediamine	68479-98-1	EINECS 270-877-4	25 - 35	Xn:R21-22-48/22; Xi:R36; N:R50/53 - Nota C (EU) Acute Tox. 4, H312; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT RE 2, H373; Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 - Nota C (CLP)
Propane-1,2-diol, propoxylated	25322-69-4	NLP 500-039-8	15 - 25	Xn:R22 (Self Classified) Acute Tox. 4, H302 (Self Classified)
Non-hazardous ingredients	Mixture		1 - 5	
Diisononyl Phthalate	28553-12-0	EINECS 249-079-5	1 - 5	
Zeolites	1318-02-1	EINECS 215-283-8	1 - 5	
Carbon black	1333-86-4	EINECS 215-609-9	1 - 5	

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

3M Scotchkote Urethane Elastomer SS 441 Paste, Grey (Part B)

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

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.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

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

5.3. Advice for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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. 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.

3M Scotchkote Urethane Elastomer SS 441 Paste, Grey (Part B)

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 toxic, corrosivity or flammability hazard. 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

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases. Store away from oxidising agents.

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
Aluminum oxides	1318-02-1	Health and Safety Comm. (UK)	TWA(as inhalable dust):10 mg/m ³ ;TWA(as respirable dust):4 mg/m ³	
Carbon black	1333-86-4	Health and Safety Comm. (UK)	TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³	
Titanium dioxide	13463-67-7	Health and Safety Comm. (UK)	TWA(Inhalable):10 mg/m ³ ;TWA(respirable):4 mg/m ³	
Diisononyl Phthalate	28553-12-0	Health and Safety Comm. (UK)	TWA:5 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

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection.
The following eye protection(s) are recommended: Indirect vented goggles.

Skin/hand protection

Wear protective gloves.
Gloves made from the following material(s) are recommended: Neoprene.
Nitrile rubber.

Respiratory protection

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Paste
Appearance/Odour	Slight odour; Grey colour
Odour threshold	<i>No data available.</i>
pH	<i>No data available.</i>
Boiling point/boiling range	≥ 38 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	≥ 100 °C [<i>Test Method: Closed Cup</i>]
Autoignition temperature	≥ 350 °C
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	133.3 Pa
Relative density	1.05 [<i>Ref Std: WATER=1</i>]
Water solubility	Negligible
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	1.05 g/ml

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9.2. Other information

Volatile organic compounds (VOC)

0 g/l [*Test Method*:Estimated] [*Details*:EU Definition (Part A & B mix)]

Percent volatile

0 % 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

None known.

10.5 Incompatible materials

Accelerators

Amines.

Strong acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

Condition

None known.

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:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact

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

Eye contact

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Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion

Harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause target organ effects after ingestion.

Target Organ Effects:

Prolonged or repeated exposure may cause:

Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Endocrine effects: Signs/symptoms may include disruption of gonadal, thyroid, adrenal, or pancreatic function, changes in hormone production, alterations in circulating hormone levels, and/or changes in tissue response to hormones.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE 1,035.6 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.8 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Diethylmethylbenzenediamine	Dermal	Rabbit	LD50 > 1,000 mg/kg
Diethylmethylbenzenediamine	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.6125 mg/l
Diethylmethylbenzenediamine	Ingestion	Rat	LD50 472 mg/kg
Propane-1,2-diol, propoxylated	Dermal	Rabbit	LD50 > 10,000 mg/kg
Propane-1,2-diol, propoxylated	Ingestion	Rat	LD50 1,000 mg/kg
Zeolites	Dermal	Rabbit	LD50 > 2,000 mg/kg
Zeolites	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 4.57 mg/l
Zeolites	Ingestion	Rat	LD50 > 5,000 mg/kg
Diisononyl Phthalate			Data not available or insufficient for classification
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Titanium dioxide		No significant irritation
Diethylmethylbenzenediamine	Rabbit	No significant irritation
Propane-1,2-diol, propoxylated		Data not available or insufficient for classification
Zeolites		Data not available or insufficient for classification
Diisononyl Phthalate		Data not available or insufficient for classification
Carbon black		No significant irritation

Serious Eye Damage/Irritation

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Name	Species	Value
Titanium dioxide		Mild irritant
Diethylmethylbenzenediamine		Severe irritant
Propane-1,2-diol, propoxylated		Data not available or insufficient for classification
Zeolites		Data not available or insufficient for classification
Diisononyl Phthalate		Data not available or insufficient for classification
Carbon black		Data not available or insufficient for classification

Skin Sensitisation

Name	Species	Value
Titanium dioxide		Not sensitizing
Diethylmethylbenzenediamine	Human	Some positive data exist, but the data are not sufficient for classification
Propane-1,2-diol, propoxylated		Data not available or insufficient for classification
Zeolites		Data not available or insufficient for classification
Diisononyl Phthalate		Data not available or insufficient for classification
Carbon black		Data not available or insufficient for classification

Respiratory Sensitisation

Name	Species	Value
Titanium dioxide		Data not available or insufficient for classification
Diethylmethylbenzenediamine		Data not available or insufficient for classification
Propane-1,2-diol, propoxylated		Data not available or insufficient for classification
Zeolites		Data not available or insufficient for classification
Diisononyl Phthalate		Data not available or insufficient for classification
Carbon black		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	Ingestion	Not mutagenic
Diethylmethylbenzenediamine	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diethylmethylbenzenediamine	In vivo	Some positive data exist, but the data are not sufficient for classification
Propane-1,2-diol, propoxylated		Data not available or insufficient for classification
Zeolites		Data not available or insufficient for classification
Diisononyl Phthalate		Data not available or insufficient for classification
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
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Titanium dioxide	Ingestion		Not carcinogenic
Titanium dioxide	Inhalation		Some positive data exist, but the data are not sufficient for classification
Diethylmethylbenzenediamine	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Propane-1,2-diol, propoxylated			Data not available or insufficient for classification
Zeolites			Data not available or insufficient for classification
Diisononyl Phthalate			Data not available or insufficient for classification
Carbon black	Dermal		Not carcinogenic
Carbon black	Ingestion		Not carcinogenic
Carbon black	Inhalation		Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Titanium dioxide		Data not available or insufficient for classification			
Diethylmethylbenzenediamine	Ingestion	Not toxic to female reproduction	Rat	NOAEL 3.5 mg/kg/day	24 months
Diethylmethylbenzenediamine	Ingestion	Not toxic to male reproduction	Rat	NOAEL 2.8 mg/kg/day	24 months
Propane-1,2-diol, propoxylated		Data not available or insufficient for classification			
Zeolites		Data not available or insufficient for classification			
Diisononyl Phthalate		Data not available or insufficient for classification			
Carbon black		Data not available or insufficient for classification			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Titanium dioxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Propane-1,2-diol, propoxylated			Data not available or insufficient for classification			
Zeolites			Data not available or insufficient for classification			
Diisononyl Phthalate			Data not available or insufficient for classification			
Carbon black	Inhalation	respiratory irritation	Some positive data exist, but the		Irritation Positive	

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			data are not sufficient for classification			
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Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 10 mg/m ³	
Titanium dioxide	Inhalation	pulmonary fibrosis	All data are negative		NOAEL N/A	
Diethylmethyl benzenediamine	Ingestion	endocrine system	May cause damage to organs though prolonged or repeated exposure		NOAEL 4.75 mg/kg/day	
Diethylmethyl benzenediamine	Ingestion	liver	May cause damage to organs though prolonged or repeated exposure		LOAEL 1.36 mg/kg/day	
Diethylmethyl benzenediamine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.8 mg/kg/day	24 months
Diethylmethyl benzenediamine	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.4 mg/kg/day	24 months
Diethylmethyl benzenediamine	Ingestion	heart skin bone, teeth, nails, and/or hair hematopoietic system immune system muscles nervous system respiratory system	All data are negative	Rat	NOAEL 3.5 mg/kg/day	24 months
Propane-1,2-diol, propoxylated			Data not available or insufficient for classification			
Zeolites			Data not available or insufficient for classification			
Diisononyl Phthalate			Data not available or insufficient for classification			
Carbon black	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
Carbon black	Inhalation	pneumoconiosis	Some positive data exist, but the		NOAEL N/A	

3M Scotchkote Urethane Elastomer SS 441 Paste, Grey (Part B)

			data are not sufficient for classification			
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Aspiration Hazard

Name	Value
Titanium dioxide	Not an aspiration hazard
Diethylmethylbenzenediamine	Not an aspiration hazard
Propane-1,2-diol, propoxylated	Not an aspiration hazard
Zeolites	Not an aspiration hazard
Diisononyl Phthalate	Not an aspiration hazard
Carbon black	Not an aspiration hazard

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 1: Very toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 1: Very toxic to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Diethylmethylbenzenediamine	68479-98-1	Water flea	Laboratory	48 hours	EC50	0.5 mg/l
Diethylmethylbenzenediamine	68479-98-1		Laboratory	48 hours	LC50	194 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Diethylmethylbenzenediamine	68479-98-1	Calculated Biodegradation	28 days	BOD	<1 % weight	Other methods

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

3M Scotchkote Urethane Elastomer SS 441 Paste, Grey (Part B)

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. 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

SECTION 14: Transportation information

GR-2001-1540-4

ADR/RID: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. LIMITED QUANTITY, (DIETHYLMETHYLBENZENEDIAMINE), 9., III, (E), ADR Classification Code: M6.

IMDG-CODE: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DIETHYLMETHYLBENZENEDIAMINE), 9., III, LIMITED QUANTITY, EMS: FA, SF.

ICAO/IATA: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DIETHYLMETHYLBENZENEDIAMINE), 9., III, fish and tree marking may be required (> 5kg/l).

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Titanium dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Zeolites	1318-02-1	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

3M Scotchkote Urethane Elastomer SS 441 Paste, Grey (Part B)

requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

List of relevant R-phrases

R21	Harmful in contact with skin.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Revision information:

Revision Changes:

Section 16: List of relevant R phrase information was modified.

Section 3: Composition/ Information of ingredients table was modified.

Section 12: Persistence and Degradability information was modified.

Section 9: Flammability (solid, gas) information was modified.

Section 16: Regulations - Inventories - EU ONLY was modified.

Copyright was modified.

Section 8: Occupational exposure limit table was modified.

Aspiration Hazard Table was modified.

Section 11: Acute Toxicity table was modified.

Carcinogenicity Table was modified.

Serious Eye Damage/Irritation Table was modified.

Germ Cell Mutagenicity Table was modified.

Skin Sensitisation Table was modified.

Respiratory Sensitisation Table was modified.

Reproductive Toxicity Table was modified.

Skin Corrosion/Irritation Table was modified.

Target Organs - Repeated Table was modified.

Target Organs - Single Table was modified.

Section 11: Health Effects - Ingestion information was modified.

Section 5: Fire - Extinguishing media information was modified.

Section 6: Accidental release environmental information was modified.

Section 6: Accidental release clean-up information was modified.

Section 7: Precautions safe handling information was modified.

Section 7: Conditions safe storage was modified.

Section 13: Standard Phrase Category Waste GHS was modified.

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

Section 8: Personal Protection - Skin/hand information was added.

Label: Graphic Text was added.

3M Scotchkote Urethane Elastomer SS 441 Paste, Grey (Part B)

Section 9: Odour Threshold was added.

Section 9: Solubility (non-water) was added.

Section 09: Decomposition Temperature was added.

Section 11: Prolonged or repeated exposure may cause: heading was added.

Section 11: Prolonged or repeated exposure may cause standard phrases was added.

Label: Graphic was added.

Label: Graphic was added.

Label: Graphic Text was added.

Section 9: Flammability (solid, gas) information was added.

Section 2: Symbol was deleted.

Section 2: Symbols heading was deleted.

Section 11: Reproductive/Developmental Toxicity heading was deleted.

Section 11: Health Effects - Other information was deleted.

Section 11: Reproductive Hazards information was deleted.

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



Safety Data Sheet

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Transportation version number:	1.00 (16/02/2011)		

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 Elastomer Primer 075

Product identification numbers

GR-2001-0854-0 GR-2001-0972-0 GR-2001-0973-8

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

Identified uses

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

Highly flammable; F; R11
Carcinogenic; Carc. Cat. 3; R40
Irritant; Xi; R36/37/38
Sensitizing; R42/43
R67

For full text of R phrases, see Section 16.

2.2. Label elements

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

Symbol(s)



Highly
Flammable



Harmful

Contains:

4,4'-methylenediphenyl diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate

Risk phrases

R11 Highly flammable.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R42/43 May cause sensitisation by inhalation and skin contact.
 R67 Vapours may cause drowsiness and dizziness.
 R40 Limited evidence of a carcinogenic effect.

Safety phrases

S16 Keep away from sources of ignition - No Smoking.
 S23A Do not breathe vapour.
 S36/37 Wear suitable protective clothing and gloves.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special provisions concerning the labelling of certain substances

Contains isocyanates. See information supplied by manufacturer.

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
Butanone	78-93-3	EINECS 201-159-0	70 - 80	F:R11; Xi:R36; R66; R67 (EU) Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066 (CLP)
Non-hazardous ingredients	Mixture		15 - 30	
4,4'-methylenediphenyl diisocyanate	101-68-8	EINECS 202-966-0	1 - 5	Carc.Cat.3:R40; Xn:R20-48/20; Xi:R36-37-38; R42-43 - Nota 2,C (EU) Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT SE 3, H335; STOT RE 2, H373 - Nota 2,C (CLP)
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	EINECS 227-	1 - 5	Carc.Cat.3:R40; Xn:R20-48/20;

3M Scotchkote Urethane Elastomer Primer 075

		534-9		Xi:R36-37-38; R42-43 - Nota 2,C (EU) Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT SE 3, H335; STOT RE 2, H373 - Nota 2,C (CLP)
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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

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

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids and solids 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

Substance

Carbon monoxide.
Carbon dioxide.
Hydrogen cyanide.
Oxides of nitrogen.

Condition

During combustion.
During combustion.
During combustion.
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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. 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. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR-AFFF type foam is recommended. 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. Remember, adding an absorbent material does not remove a physical, health, or environmental 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. Place in a metal 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. Clean up residue with detergent and water. 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

Vapours may travel long distances along the ground or floor to an ignition source and flash back. For industrial or professional use only. 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. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from oxidising agents.

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
Free isocyanates	101-68-8	Manufacturer determined	TWA:0.005 ppm;STEL:0.02 ppm	
Free isocyanates	101-68-8	Health and Safety Comm. (UK)	TWA(as NCO):0.02 mg/m3;STEL(as NCO):0.07 mg/m3	Respiratory Sensitizer
Free isocyanates	5873-54-1	Manufacturer determined	TWA:0.005 ppm;STEL:0.02 ppm	
Free isocyanates	5873-54-1	Health and Safety Comm. (UK)	TWA(as NCO):0.02 mg/m3;STEL(as NCO):0.07 mg/m3	Respiratory Sensitizer
Butanone	78-93-3	Health and Safety Comm. (UK)	TWA: 600 mg/m ³ (200 ppm); STEL: 899 mg/m ³ (300 ppm)	Skin Notation

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 explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection.

The following eye protection(s) are recommended: Indirect vented goggles.

Skin/hand protection

Wear protective gloves and protective clothing. Skin protection is not required.

Gloves made from the following material(s) are recommended: Butyl rubber.

Fluoroelastomer
Polymer laminate

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

Respiratory protection

In case of inadequate ventilation wear 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:

Full facepiece air-purifying respirator suitable for organic vapours

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Liquid.
Appearance/Odour	Pungent Solvent odour; Clear Amber colour
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Boiling point/boiling range	>=80 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	-7 °C [<i>Test Method:</i> Closed Cup]
Autoignition temperature	515 °C
Flammable Limits(LEL)	1.8 % volume
Flammable Limits(UEL)	11.5 % volume
Vapour pressure	10,399.1 Pa [<i>@ 20 °C</i>]
Relative density	0.870 [<i>Ref Std:</i> WATER=1]
Water solubility	Negligible
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	2.7 [<i>Ref Std:</i> BUOAC=1]
Vapour density	2.5 [<i>Ref Std:</i> AIR=1]
Decomposition temperature	<i>No data available.</i>
Viscosity	< 0.001 Pa-s
Density	0.87 g/ml
9.2. Other information	
Volatile organic compounds (VOC)	652.5 g/l
Percent volatile	75 % 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

Heat.

Sparks and/or flames.

Temperatures above the boiling point.

10.5 Incompatible materials

Alcohols.

Combustibles.

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

Strong acids.
Strong oxidising agents.

10.6 Hazardous decomposition products

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

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:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause target organ effects after inhalation.

Skin contact

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

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

Additional information:

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

Toxicological Data

Acute Toxicity

3M Scotchkote Urethane Elastomer Primer 075

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE3,649.3 mg/kg
Butanone	Dermal	Rabbit	LD50 8,001 mg/l
Butanone	Inhalation-Vapor (4 hours)	Rat	LC50 34.5 mg/kg
Butanone	Ingestion	Rat	LD50 2,737 mg/kg
4,4'-methylenediphenyl diisocyanate	Dermal		LD50 > 5,000 mg/kg
o-(p-isocyanatobenzyl)phenyl isocyanate	Dermal		LD50 > 5,000 mg/kg
4,4'-methylenediphenyl diisocyanate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.369 mg/l
4,4'-methylenediphenyl diisocyanate	Ingestion	Rat	LD50 31,600 mg/kg
o-(p-isocyanatobenzyl)phenyl isocyanate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.369 mg/l
o-(p-isocyanatobenzyl)phenyl isocyanate	Ingestion	Rat	LD50 31,600 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Butanone		Minimal irritation
4,4'-methylenediphenyl diisocyanate		Irritant
o-(p-isocyanatobenzyl)phenyl isocyanate		Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Butanone		Moderate irritant
4,4'-methylenediphenyl diisocyanate		Severe irritant
o-(p-isocyanatobenzyl)phenyl isocyanate		Severe irritant

Skin Sensitisation

Name	Species	Value
Butanone		Data not available or insufficient for classification
4,4'-methylenediphenyl diisocyanate		Sensitising
o-(p-isocyanatobenzyl)phenyl isocyanate		Sensitising

Respiratory Sensitisation

Name	Species	Value
Butanone		Data not available or insufficient for classification
4,4'-methylenediphenyl diisocyanate		Sensitising
o-(p-isocyanatobenzyl)phenyl isocyanate		Sensitising

Germ Cell Mutagenicity

Name	Route	Value
Butanone	In Vitro	Not mutagenic
4,4'-methylenediphenyl diisocyanate	In vivo	Some positive data exist, but the data are not sufficient for classification
o-(p-isocyanatobenzyl)phenyl isocyanate	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Butanone	Inhalation		Not carcinogenic
4,4'-methylenediphenyl diisocyanate	Inhalation		Some positive data exist, but the data are not sufficient for classification

3M Scotchkote Urethane Elastomer Primer 075

o-(p-isocyanatobenzyl)phenyl isocyanate	Inhalation		Some positive data exist, but the data are not sufficient for classification
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Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Butanone	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOAEL 8.8 mg/l	
4,4'-methylenediphenyl diisocyanate	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 0.004 mg/l	
o-(p-isocyanatobenzyl)phenyl isocyanate	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 0.004 mg/l	

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Butanone	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 29 mg/l	
Butanone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Butanone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOAEL 1,500 mg/kg/day	
Butanone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOAEL 1,080 mg/kg	
4,4'-methylenediphenyl diisocyanate	Inhalation	respiratory irritation	May cause respiratory irritation		Irritation Positive	
o-(p-isocyanatobenzyl)phenyl isocyanate	Inhalation	respiratory irritation	May cause respiratory irritation		Irritation Positive	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target	Value	Species	Test result	Exposure
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3M Scotchkote Urethane Elastomer Primer 075

		Organ(s)				Duration
Butanone	Dermal	nervous system	All data are negative		NOAEL 2	
Butanone	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOAEL 14.7 mg/l	
Butanone	Inhalation	heart endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system muscles	All data are negative		NOAEL 14.7 mg/l	
Butanone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOAEL 1,500 mg/kg/day	
Butanone	Ingestion	nervous system	All data are negative		NOAEL 173 mg/kg/day	
4,4'-methylenediphenyl diisocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.004 mg/l	
o-(p-isocyanatobenzyl)phenyl isocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.004 mg/l	

Aspiration Hazard

Name	Value
Butanone	Not an aspiration hazard
4,4'-methylenediphenyl diisocyanate	Not an aspiration hazard
o-(p-isocyanatobenzyl)phenyl isocyanate	Not an aspiration hazard

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:**

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

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No component test data available.

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)

080501* Waste isocyanates

SECTION 14: Transportation information

GR-2001-0854-0, GR-2001-0972-0, GR-2001-0973-8

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

IMDG-CODE: UN1263, PAINT RELATED MATERIAL, 3, II , LIMITED QUANTITY, EMS: FE,SE.

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

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
4,4'-methylenediphenyl diisocyanate	101-68-8	Carc. 2	Regulation (EC) No. 1272/2008, Table 3.1

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4,4'-methylenediphenyl diisocyanate	101-68-8	Carc.Cat.3	Regulation (EC) No. 1272/2008, Table 3.2
4,4'-methylenediphenyl diisocyanate	101-68-8	Gr. 3: Not classifiable	International Agency for Research on Cancer
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	Carc. 2	Regulation (EC) No. 1272/2008, Table 3.1
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	Carc.Cat.3	Regulation (EC) No. 1272/2008, Table 3.2

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. 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. 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

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

List of relevant R-phrases

R11	Highly flammable.
R20	Harmful by inhalation.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitisation by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Revision information:

Revision Changes:

Section 16: List of relevant R phrase information was modified.

Section 3: Composition/ Information of ingredients table was modified.

Section 2: Indication of danger information was modified.
Section 9: Flammability (solid, gas) information was modified.
Section 16: Regulations - Inventories - EU ONLY was modified.
Copyright was modified.
Aspiration Hazard Table was modified.
Section 11: Acute Toxicity table was modified.
Carcinogenicity Table was modified.
Serious Eye Damage/Irritation Table was modified.
Germ Cell Mutagenicity Table was modified.
Skin Sensitisation Table was modified.
Respiratory Sensitisation Table was modified.
Reproductive Toxicity Table was modified.
Skin Corrosion/Irritation Table was modified.
Target Organs - Repeated Table was modified.
Target Organs - Single Table was modified.
Section 5: Fire - Extinguishing media information was modified.
Section 6: Accidental release clean-up information was modified.
Section 8: Personal Protection - Skin/hand information was modified.
Section 13: Standard Phrase Category Waste GHS was modified.
Label: Graphic Text was added.
Section 9: Odour Threshold was added.
Section 9: Solubility (non-water) was added.
Section 09: Decomposition Temperature was added.
Section 11: Single exposure may cause: heading was added.
Section 11: Prolonged or repeated exposure may cause: heading was added.
Section 11: Single exposure may cause standard phrases was added.
Section 11: Prolonged or repeated exposure may cause standard phrases was added.
Label: Graphic was added.
Label: Graphic was added.
Label: Graphic Text was added.
Section 9: Flammability (solid, gas) information was added.
Section 2: Symbol was deleted.
Section 2: Symbols heading was deleted.
Section 11: Health Effects - Other information was deleted.

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



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 Elastomer SS 441 Paste (Part A)

Product identification numbers

GR-2001-1532-1

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

Identified uses

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

Harmful; Xn; R20

Sensitizing; R42/43

For full text of R phrases, see Section 16.

2.2. Label elements

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

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)**Symbols**

Xn Harmful.

Contains:

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; Polypropylene Glycol-Isophorone Diisocyanate copolymer

Risk phrasesR20 Harmful by inhalation.
R42/43 May cause sensitisation by inhalation and skin contact.**Safety phrases**S23A Do not breathe vapour.
S24 Avoid contact with skin.
S37 Wear suitable gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**Special provisions concerning the labelling of certain substances**

Contains isocyanates. See information supplied by manufacturer.

2.3. Other hazards

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates. None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Polypropylene Glycol-Isophorone Diisocyanate copolymer	39323-37-0		60 - 70	R43 (Vendor) Skin Sens. 1, H317 (Vendor)
Toluene diisocyanate prepolymer	Trade Secret		20 - 30	
Non-hazardous ingredients	Mixture		1 - 10	
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	EINECS 223-861-6	1 - 5	T:R23; Xi:R36-37-38; N:R51/53; R42-43 - Nota 2 (EU) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 2, H411 - Nota 2 (CLP)
m-tolyldiene diisocyanate	26471-62-5	EINECS 247-722-4	< 0.1	Carc.Cat.3:R40; T+:R26; Xi:R36-37-38; R42-43; R52/53 (EU) Acute Tox. 1, H330; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT SE 3, H335; Aquatic Chronic 3, H412 - Nota C (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. Remove contact lenses if easy to do. Continue rinsing. 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.

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 carbon dioxide extinguisher for extinction.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

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

5.3. Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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. 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.

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)

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. 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

Avoid eye contact. For industrial or professional use only. Do not use in a confined area or areas with little or no air movement. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

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

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
Free isocyanates	26471-62-5	Manufacturer determined	TWA:0.005 ppm;STEL:0.02 ppm	
Free isocyanates	26471-62-5	Health and Safety Comm. (UK)	TWA(as NCO):0.02 mg/m ³ ;STEL(as NCO):0.07 mg/m ³	Respiratory Sensitizer
Free isocyanates	4098-71-9	Manufacturer determined	TWA:0.005 ppm;STEL:0.02 ppm	
Free isocyanates	4098-71-9	Health and Safety Comm. (UK)	TWA(as NCO):0.02 mg/m ³ ;STEL(as NCO):0.07 mg/m ³	Respiratory Sensitizer

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

CEIL: Ceiling

8.2. Exposure controls

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection.

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

Skin/hand protection

Wear protective gloves. Skin protection is not required.

Gloves made from the following material(s) are recommended: Butyl rubber.

Nitrile rubber.

Polyvinyl alcohol (PVA).

Respiratory protection

In case of inadequate ventilation wear 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Opaque paste
Appearance/Odour	Faint musty odour; Clear opaque colour
pH	<i>Not applicable.</i>
Boiling point/boiling range	≥ 212 °C
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	100 °C [<i>Test Method:</i> Closed Cup]
Autoignition temperature	≥ 400 °C
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	1.09 [<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	1.09 g/ml

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)

9.2. Other information

Volatile organic compounds (VOC)	0 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :EU Definition (Part A and B mix)]
Percent volatile	0 %

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

None known.

10.5 Incompatible materials

Accelerators

Alcohols.

Amines.

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

Strong acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products

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

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

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Skin contact

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)

Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Inhalation

Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion

May be harmful if swallowed.

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

Target Organ Effects:

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

Additional information:

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

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE _{2,000} - 5,000 mg/kg
Polypropylene Glycol-Isophorone Diisocyanate copolymer			No data available
Toluene diisocyanate prepolymer	Dermal		LD ₅₀ estimated to be > 5,000 mg/kg
Toluene diisocyanate prepolymer	Ingestion		LD ₅₀ estimated to be 2,000 - 5,000 mg/kg
Non-hazardous ingredients	Dermal	Rabbit	LD ₅₀ > 5,000 mg/kg
Non-hazardous ingredients	Inhalation-Dust/Mist (4 hours)	Rat	LC ₅₀ > 0.691 mg/l
Non-hazardous ingredients	Ingestion	Rat	LD ₅₀ > 5,110 mg/kg
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Dermal	Rat	LD ₅₀ > 7,000 mg/kg
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Inhalation-Dust/Mist (4 hours)	Rat	LC ₅₀ 0.03 mg/l
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Ingestion	Rat	LD ₅₀ 4,815 mg/kg
m-tolyldiene diisocyanate	Dermal	Rat	LD ₅₀ > 9,400 mg/kg
m-tolyldiene diisocyanate	Inhalation-Vapor (4 hours)	Rat	LC ₅₀ 0.25 mg/l
m-tolyldiene diisocyanate	Ingestion	Rat	LD ₅₀ > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Polypropylene Glycol-Isophorone Diisocyanate copolymer		No data available
Toluene diisocyanate prepolymer		Minimal irritation
Non-hazardous ingredients		No significant irritation
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Rabbit	Corrosive
m-tolyldiene diisocyanate		Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
Polypropylene Glycol-Isophorone Diisocyanate copolymer		No data available

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Toluene diisocyanate prepolymer		Mild irritant
Non-hazardous ingredients		No data available
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Rabbit	Corrosive
m-tolyldiene diisocyanate		Severe irritant

Skin Sensitisation

Name	Species	Value
Polypropylene Glycol-Isophorone Diisocyanate copolymer		No data available
Toluene diisocyanate prepolymer		Some positive data exist, but the data are not sufficient for classification
Non-hazardous ingredients		Not sensitizing
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Guinea pig	Sensitising
m-tolyldiene diisocyanate		Sensitising

Respiratory Sensitisation

Name	Species	Value
Polypropylene Glycol-Isophorone Diisocyanate copolymer		No data available
Toluene diisocyanate prepolymer		No data available
Non-hazardous ingredients		No data available
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Human	Sensitising
m-tolyldiene diisocyanate		Sensitising

Germ Cell Mutagenicity

Name	Route	Value
Polypropylene Glycol-Isophorone Diisocyanate copolymer		No data available
Toluene diisocyanate prepolymer		No data available
Non-hazardous ingredients	In Vitro	Not mutagenic
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	In vivo	Not mutagenic
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification
m-tolyldiene diisocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Polypropylene Glycol-Isophorone Diisocyanate copolymer			No data available
Toluene diisocyanate prepolymer			No data available
Non-hazardous ingredients	Not specified.		Some positive data exist, but the data are not sufficient for classification
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate			No data available
m-tolyldiene diisocyanate	Not specified.		Carcinogenic.

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Polypropylene Glycol-Isophorone Diisocyanate copolymer		No data available			

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Toluene diisocyanate prepolymer		No data available			
Non-hazardous ingredients	Ingestion	Not toxic to reproduction and/or development		NOAEL 1,350 mg/kg	
Non-hazardous ingredients	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Non-hazardous ingredients	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Non-hazardous ingredients	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Inhalation	Not toxic to female reproduction	Rat	NOAEL 0.004 mg/l	during gestation
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Inhalation	Not toxic to male reproduction	Rat	NOAEL 0.004 mg/l	4 weeks
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 0.001 mg/l	during gestation
m-tolyldiene diisocyanate	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 0.1 ppm	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polypropylene Glycol-Isophorone Diisocyanate copolymer			No data available			
Toluene diisocyanate prepolymer	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive mg/kg	
Non-hazardous ingredients	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Dermal	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 7,000 mg/kg	24 hours
3-Isocyanatomethyl-3,5,5-	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL 0.00025 mg/l	4 weeks

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trimethylcyclohexyl isocyanate						
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL Not available	not applicable
m-tolyldiene diisocyanate	Inhalation	respiratory irritation	May cause respiratory irritation		RD50 0.26 ppm	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polypropylene Glycol-Isophorone Diisocyanate copolymer			No data available			
Toluene diisocyanate prepolymer			No data available			
Non-hazardous ingredients	Inhalation	respiratory system silicosis	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.00025 mg/l	4 weeks
m-tolyldiene diisocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure		NOAEL 0.0009 ppm	

Aspiration Hazard

Name	Value
Polypropylene Glycol-Isophorone Diisocyanate copolymer	Not an aspiration hazard
Toluene diisocyanate prepolymer	Not an aspiration hazard
Non-hazardous ingredients	Not an aspiration hazard
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	Not an aspiration hazard
m-tolyldiene diisocyanate	Not an aspiration hazard

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.

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)**12.1. Toxicity****Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
3-Isocyanatomet hyl-3,5,5-trimethylcyclo hexyl isocyanate	4098-71-9		Laboratory	96 hours	LC50	=110 mg/l
3-Isocyanatomet hyl-3,5,5-trimethylcyclo hexyl isocyanate	4098-71-9	Water flea	Laboratory	48 hours	LC50	17.4 mg/l
3-Isocyanatomet hyl-3,5,5-trimethylcyclo hexyl isocyanate	4098-71-9	Green algae	Laboratory	72 hours	EC50	=37 mg/l
3-Isocyanatomet hyl-3,5,5-trimethylcyclo hexyl isocyanate	4098-71-9	Green algae	Laboratory	72 hours	NOEC	1.5 mg/l
3-Isocyanatomet hyl-3,5,5-trimethylcyclo hexyl isocyanate	4098-71-9	Water flea	Laboratory	21 days	NOEC	3 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
3-Isocyanatomet hyl-3,5,5-trimethylcyclo hexyl isocyanate	4098-71-9	Biodegradation	28 days	BOD	0 % weight	OECD 301C - MITI test (I)

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
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3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)

3-Isocyanatomet hyl-3,5,5- trimethylcyclo hexyl isocyanate	4098-71-9	Bioconcentrati on	42 days	Bioaccumulati on factor	<3.4	Other methods
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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

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

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-2001-1532-1

Not hazardous for transportation

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
m-tolylidene diisocyanate	26471-62-5	Carc. 2	Regulation (EC) No. 1272/2008, Table 3.1
m-tolylidene diisocyanate	26471-62-5	Carc.Cat.3	Regulation (EC) No. 1272/2008, Table 3.2
m-tolylidene diisocyanate	26471-62-5	Grp. 2B: Possible human	International Agency

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)

carc.

for Research on Cancer

Global inventory status

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. 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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

List of relevant R-phrases

R23	Toxic by inhalation.
R26	Very toxic by inhalation.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitisation by inhalation.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Revision information:

Revision Changes:

Section 8: Respiratory protection - recommended respirators information was modified.

Section 8: Respiratory protection - recommended respirators was modified.

Section 2: Indication of danger information was modified.

Copyright was modified.

Aspiration Hazard Table was modified.

Section 11: Acute Toxicity table was modified.

Carcinogenicity Table was modified.

Serious Eye Damage/Irritation Table was modified.

Germ Cell Mutagenicity Table was modified.

Skin Sensitisation Table was modified.

Respiratory Sensitisation Table was modified.

Reproductive Toxicity Table was modified.

Skin Corrosion/Irritation Table was modified.

Target Organs - Repeated Table was modified.

Target Organs - Single Table was modified.

Section 6: Accidental release personal information was modified.

Section 6: Accidental release clean-up information was modified.

3M Scotchkote Urethane Elastomer SS 441 Paste (Part A)

Section 13: Standard Phrase Category Waste GHS was modified.
Section 8: Respiratory protection - recommended respirators guide was added.
Section 12: Component ecotoxicity information was added.
Section 12: Persistence and Degradability information was added.
Section 12: Biocumulative potential information was added.
Section 12: Component Ecotoxicity table Material column header was added.
Section 12: Component Ecotoxicity table CAS No column header was added.
Section 12: Component Ecotoxicity table Organism column header was added.
Section 12: Component Ecotoxicity table Type column header was added.
Section 12: Component Ecotoxicity table Exposure column header was added.
Section 12: Component Ecotoxicity table End point column header was added.
Section 12: Component Ecotoxicity table Result column header was added.
Section 12: Persistence and degradability table Material column header was added.
Section 12: Persistence and degradability table CAS No column header was added.
Section 12: Persistence and degradability table Test Type column header was added.
Section 12: Persistence and degradability table Duration column header was added.
Section 12: Persistence and degradability table Test Result column header was added.
Section 12: Persistence and degradability table Protocol column header was added.
Section 12: Biocumulative potential table Material column header was added.
Section 12: Biocumulative potential table CAS No column header was added.
Section 12: Biocumulative potential table CAS No column header was added.
Section 12: Biocumulative potential table Test Result column header was added.
Section 12: Biocumulative potential table Protocol column header was added.
Section 12: Biocumulative potential table Test Type column header was added.
Section 12: Persistence and degradability table Study Type column header was added.
Section 12: Biocumulative potential table Test Type column header was added.
Section 2: R phrase reference was added.
Prints No Data if Component ecotoxicity information is not present was deleted.
Prints No Data if Persistence and Degradability information is not present was deleted.
Prints No Data if Biocumulative potential information is not present was deleted.
Section 11: UN GHS Classification table heading was deleted.

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