



Safety Data Sheet

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Document group:	27-4748-3	Version number:	2.01
Revision date:	15/08/2011	Supersedes date:	09/05/2011
Transportation version number:	1.00 (03/09/2010)		

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 Epoxy Coating EP2306HF (70) (Part B)

Product identification numbers

GR-2001-3334-0 GR-2001-3335-7

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

Dangerous to environment.

Harmful.

Flammable

2.2. Label elements

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

Symbols

3M Scotchkote Epoxy Coating EP2306HF (70) (Part B)

Xn Harmful.
N Dangerous to environment.

Contains:

Xylene

Risk phrases

R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety phrases

S23C Do not breathe vapour or spray.
S36/37 Wear suitable protective clothing and gloves.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Special provisions concerning the labelling of certain substances

Contains triethylenetetramine. May produce an allergic reaction.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-hazardous ingredients	Mixture		40 - 70	
Xylene	1330-20-7	EINECS 215-535-7	20 - 30	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 (CLP)
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	EINECS 202-013-9	1 - 5	Xn:R22; Xi:R36-38 (EU) Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 (CLP)
Triethylenetetramine	112-24-3	EINECS 203-950-6	< 1	C:R34; Xn:R21; R43; R52/53 (EU) Acute Tox. 3, H311; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (CLP)
Ethylbenzene	100-41-4	EINECS 202-849-4	< 1	F:R11; Xn:R20 (EU) Flam. Liq. 2, H225; Acute Tox. 4, H332 (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.

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.
Oxides of nitrogen.	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. Use only non-sparking tools. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Avoid release to the

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environment.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. 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. 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. Place in a metal container approved for transportation by appropriate authorities. 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

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 handle until all safety precautions have been read and understood. 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. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

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

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
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

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

8.2.1. Engineering controls

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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 protective gloves and 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: Polymer laminate

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

Respiratory protection

In case of inadequate ventilation wear 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.
Appearance/Odour	Pungent, Aromatic Odour; Clear
pH	<i>No data available.</i>
Boiling point/boiling range	≥ 120 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Flammable liquid: Category 3.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	≥ 27 °C [<i>Test Method:</i> Closed Cup]
Flammable Limits(LEL)	1 % volume
Flammable Limits(UEL)	7 % volume
Vapour pressure	699.9 Pa [<i>@ 25 °C</i>]
Relative density	0.94 [<i>Ref Std:</i> WATER=1]
Water solubility	0 %
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	1 Pa-s
Density	0.94 g/ml

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9.2. Other information

Volatile organic compounds (VOC)	259 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :Part A and B mix (EU Definition)]
Percent volatile	29.95 %

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

Amines.
Combustibles.
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

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

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

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. May cause target organ effects after ingestion.

Target Organ Effects:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Prolonged or repeated exposure may cause:

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.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Additional information:

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

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE >5000 mg/kg	Not classified (0% unknown)
Non-hazardous ingredients	Ingestion	Rat	LD50 > 5,000 mg/kg	Not classified
Xylene	Dermal	Rabbit	LD50 > 4300 mg/kg	Category5
Xylene	Inhalation-Vapor (4 hours)	Rat	LC50 28 mg/l	Category5
Xylene	Ingestion	Rat	LD50 3523 mg/kg	Category5
2,4,6-Tris(dimethylaminomethyl)phenol	Dermal	Rat	LD50 1280 mg/kg	Category4
2,4,6-Tris(dimethylaminomethyl)phenol	Ingestion	Rat	LD50 1000 mg/kg	Category4
Triethylenetetramine	Dermal	Rabbit	LD50 550 mg/kg	Category3
Triethylenetetramine	Ingestion	Rat	LD50 2500 mg/kg	Category5
Ethylbenzene	Dermal	Rabbit	LD50 15433 mg/kg	Not classified
Ethylbenzene	Inhalation-Vapor (4 hours)	Rat	LC50 17 mg/l	Category4
Ethylbenzene	Ingestion	Rat	LD50 4769 mg/kg	Category5

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
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Overall product		No test data available; calculated to be mild irritant	Category 3
Non-hazardous ingredients		No data available	
Xylene		Mild irritant	Category 3
2,4,6-Tris(dimethylaminomethyl)phenol		Irritant	Category 2
Triethylenetetramine		No data available	
Ethylbenzene		Mild irritant	Category 3

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
Non-hazardous ingredients		No data available	
Xylene		Mild irritant	Not classified
2,4,6-Tris(dimethylaminomethyl)phenol		Severe irritant	Category 2A
Triethylenetetramine		No data available	
Ethylbenzene		Moderate irritant	Category 2B

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Category 1 based on component data
Non-hazardous ingredients		No data available	
Xylene		No data available	
2,4,6-Tris(dimethylaminomethyl)phenol		Not sensitizing	Not classified
Triethylenetetramine		Sensitising	Category 1
Ethylbenzene		Not sensitizing	Not classified

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Non-hazardous ingredients		No data available	
Xylene		No data available	
2,4,6-Tris(dimethylaminomethyl)phenol		No data available	
Triethylenetetramine		No data available	
Ethylbenzene		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.	
Non-hazardous ingredients		No data available	
Xylene	In Vitro	Not mutagenic	Not classified
Xylene	In vivo	Not mutagenic	Not classified
2,4,6-Tris(dimethylaminomethyl)phenol	In Vitro	Not mutagenic	Not classified
Triethylenetetramine		No data available	
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified

3M Scotchkote Epoxy Coating EP2306HF (70) (Part B)**Carcinogenicity**

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Category 2 based on component data
Non-hazardous ingredients			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
2,4,6-Tris(dimethylaminomethyl)phenol			No data available	
Triethylenetetramine			No data available	
Ethylbenzene	Inhalation		Carcinogenic.	Category 2

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

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		No test data available.				Not classified based on component data
Non-hazardous ingredients		No data available				
Xylene	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOAEL 2060 mg/kg/day		
Xylene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOAEL N/A		
2,4,6-Tris(dimethylaminomethyl)phenol		No data available				
Triethylenetetramine		No data available				
Ethylbenzene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 0.43 mg/l		

Lactation

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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
Non-hazardous ingredients			No data available				
Xylene	Inhalation	auditory system	Causes damage to organs		LOAEL 6.3 mg/l		Category 1
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.43 mg/l		Category 3
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		NOEL 125 mg/kg		Not classified

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			for classification				
2,4,6-Tris(dimethylaminomethyl)phenol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Triethylenetetramine			No data available				
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

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
Non-hazardous ingredients			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 through 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	All data are negative		NOAEL 3.5 mg/l		Not classified

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		kidney and/or bladder respiratory system					
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, nails, and/or hair hematopoietic system immune system nervous system respiratory system	All data are negative		NOAEL 1000 mg/kg/day		Not classified
2,4,6-Tris(dimethylaminophenyl)phenol	Dermal	skin	Some positive data exist, but the data are not sufficient for classification		NOEL 5 mg/kg/day		Not classified
2,4,6-Tris(dimethylaminophenyl)phenol	Dermal	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 25 mg/kg/day		Not classified
2,4,6-Tris(dimethylaminophenyl)phenol	Dermal	nervous system	Some positive data exist, but the data are not sufficient for classification		NOEL 5 mg/kg/day		Not classified
2,4,6-Tris(dimethylaminophenyl)phenol	Dermal	auditory system hematopoietic system eyes	All data are negative		NOAEL 125 mg/kg/day		Not classified
Triethylenet			No data				

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etramine			available				
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	hematopoietic 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

Aspiration Hazard

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Non-hazardous ingredients	Not an aspiration hazard	Not classified
Xylene	Aspiration hazard	Category 1
2,4,6-Tris(dimethylaminomethyl)phenol	Not an aspiration hazard	Not classified
Triethylenetetramine	Not an aspiration hazard	Not classified
Ethylbenzene	Aspiration hazard	Category 1

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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 2: Toxic to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Ethylbenzene	100-41-4	Green algae	Laboratory	96 hours	EC50	3.6 mg/l
Ethylbenzene	100-41-4	Rainbow trout	Laboratory	96 hours	LC50	4.2 mg/l
Triethylenetetramine	112-24-3	Green algae	Laboratory	72 hours	EC50	2.5 mg/l
Ethylbenzene	100-41-4	Water flea	Laboratory	24 hours	EC50	1.81 mg/l
Xylene	1330-20-7	Water flea	Laboratory	48 hours	LC50	2.4 mg/l
Xylene	1330-20-7	Rainbow trout	Laboratory	96 hours	LC50	2.6 mg/l
Xylene	1330-20-7	Green algae	Laboratory	72 hours	EC50	3.2 mg/l
Triethylenetetramine	112-24-3	Guppy	Laboratory	96 hours	LC50	570 mg/l
Triethylenetetramine	112-24-3	Water flea	Laboratory	48 hours	EC50	31.1 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Triethylenetetramine	112-24-3	Biodegradation	20 days	BOD	0 % weight	OECD 301D - Closed bottle test
Xylene	1330-20-7	Biodegradation	28 days	BOD	100 % weight	OECD 301C - MITI test (I)
Ethylbenzene	100-41-4	Biodegradation	28 days	BOD	50 % weight	Other methods

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Xylene	1330-20-7	Bioaccumulation	56 days	Bioaccumulation factor	12.0	Other methods
Triethylenetetramine	112-24-3	Bioaccumulation	42 days	Bioaccumulation factor	<5.0	OECD 305E - Bioaccumulation flow-through fish test
Ethylbenzene	100-41-4	Bioconcentration	42 days	Bioaccumulation	1	Other methods

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		on		on factor		
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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

Incinerate uncured product in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous 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 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

GR-2001-3334-0, GR-2001-3335-7

ADR/RID: UN1263, PAINT RELATED MATERIAL, 3., III, (D/E), ADR Classification Code: F1.

IMDG-CODE: UN1263, PAINT RELATED MATERIAL, 3, III, 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

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
Ethylbenzene	100-41-4	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 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 material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain

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restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Industrial Safety and Health 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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful 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.
R34	Causes burns.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Revision information:

Revision Changes:

Risk phrase was modified.

Safety phrase was modified.

Section 8: Skin protection - protective clothing information was modified.

Section 2: Symbol was modified.

Section 16: UK disclaimer was modified.

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 12: Bioaccumulative potential information was modified.

Section 2: Other hazards phrase was modified.

Section 16: Regulations – Inventories – EU ONLY 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.

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Skin 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 - Eye information was modified.
Section 11: Health Effects - Skin information was modified.
Section 11: Health Effects - Inhalation information was modified.
Section 11: Health Effects - Ingestion information was modified.
Section 11: Health Effects - Other information was modified.
Section 6: Accidental release personal 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 8: Appropriate Engineering controls information was modified.
Section 13: Standard Phrase Category Waste GHS was modified.
Section 11: Lactation table heading was added.
Lactation Table was added.
Section 11: Lactation table - Name heading was added.
Section 11: Lactation table - Route heading was added.
Section 11: Lactation table - Species heading was added.
Section 11: Lactation table - UN GHS Classification heading was added.
Section 11: Lactation table - Value heading was added.
Section 8: Personal Protection - Respiratory Information was added.

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