



## 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 Epoxy Coating KS16W (Part B)

#### Product identification numbers

GR-2001-0287-3

#### 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.

Flammable

Sensitising

#### 2.2. Label elements

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

##### Symbols

**3M Scotchkote Epoxy Coating KS16W (Part B)**

Xn Harmful.

**Contains:**

Butan-1-ol; Diethylenetriamine; Xylene

**Risk phrases**

R10 Flammable.  
 R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 R41 Risk of serious damage to eyes.  
 R37/38 Irritating to respiratory system and skin.  
 R43 May cause sensitisation by skin contact.

**Safety phrases**

S23C Do not breathe vapour or spray.  
 S51 Use only in well ventilated areas.  
 S36/37/39B Wear suitable protective clothing, gloves, and eye and face protection.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**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		25 - 35	
Butan-1-ol	71-36-3	EINECS 200-751-6	25 - 35	Xn:R22; Xi:R37-38-41; R10; R67 (EU)  Flam. Liq. 3, H226; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H336; STOT SE 3, H335 (CLP)
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)
Diethylenetriamine	111-40-0	EINECS 203-865-4	1 - 10	C:R34; Xn:R21-22; R43 (EU)  Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317 (CLP)
4-Methylpentan-2-one	108-10-1	EINECS 203-550-1	1 - 10	F:R11; Xn:R20; Xi:R36-37; R66 (EU)  Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335 (CLP)
Ethylbenzene	100-41-4	EINECS 202-849-4	1 - 5	F:R11; Xn:R20 (EU)  Flam. Liq. 2, H225; Acute Tox. 4, H332 (CLP)

## 3M Scotchkote Epoxy Coating KS16W (Part B)

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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

#### Inhalation

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

#### If swallowed

Do not induce vomiting. Get immediate 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Eliminate all ignition sources if safe to do so. 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:

## 3M Scotchkote Epoxy Coating KS16W (Part B)

A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

Contain spill. 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

For industrial or professional use only. Do not use in a confined area or areas with little or no air movement. 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. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

### 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. Store away from strong bases.

### 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 <sup>3</sup> (100 ppm);STEL:552 mg/m <sup>3</sup> (125 ppm)	Skin Notation
4-Methylpentan-2-one	108-10-1	Health and Safety Comm.	TWA:208 mg/m <sup>3</sup> (50 ppm);STEL:416 mg/m <sup>3</sup> (100 ppm)	Skin Notation

### 3M Scotchkote Epoxy Coating KS16W (Part B)

Diethylenetriamine	111-40-0	(UK) Health and Safety Comm.	ppm) TWA:4.3 mg/m3(1 ppm)	Skin Notation
Xylene	1330-20-7	(UK) Health and Safety Comm.	TWA:220 mg/m3(50 ppm);STEL:441 mg/m3(100 ppm)	Skin Notation
Butan-1-ol	71-36-3	(UK) Health and Safety Comm. (UK)	STEL:154 mg/m3(50 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/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use explosion-proof ventilation equipment. 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 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: Butyl rubber.

#### 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 Solvent Odour, Amber Colour
pH	<i>No data available.</i>
Boiling point/boiling range	110 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Flammable liquid: Category 3.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	32 °C [ <i>Test Method</i> :Closed Cup]

## 3M Scotchkote Epoxy Coating KS16W (Part B)

Autoignition temperature	350 °C
Flammable Limits(LEL)	0.9 % volume
Flammable Limits(UEL)	7 % volume
Vapour pressure	1,037.2 Pa [@ 25 °C ]
Relative density	0.93 [Ref Std:WATER=1]
Water solubility	0 %

Partition coefficient: n-octanol/water	No data available.
Evaporation rate	No data available.
Vapour density	No data available.

Viscosity	0.002 - 0.003 Pa-s
Density	0.93 g/ml

### 9.2. Other information

Volatile organic compounds (VOC)	407.3 g/l [Test Method:Estimated] [Details:EU Definition , Part A and Part B mixture]
Volatile organic compounds (VOC)	447.5 g/l [Test Method:Estimated] [Details:EU Definition, Part A and Part B mixture 10% thinned]
Percent volatile	65.87 % 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

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

## 3M Scotchkote Epoxy Coating KS16W (Part B)

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

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

##### Skin contact

Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. 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. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause target organ effects after inhalation.

##### Ingestion

May be harmful if swallowed.

Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen. 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 ATE2,921 mg/kg	Category5 (0% unknown)
Butan-1-ol	Dermal	Rabbit	LD50 3,402 mg/kg	Category5
Butan-1-ol	Inhalation-Vapor	Rat	LC50 > 24 mg/l	Not classified

**3M Scotchkote Epoxy Coating KS16W (Part B)**

	(4 hours)			
Butan-1-ol	Ingestion	Rat	LD50 2,290 mg/kg	Category5
Non-hazardous ingredients			No data available	
Xylene	Dermal	Rabbit	LD50 > 4,300 mg/kg	Category5
Xylene	Inhalation-Vapor (4 hours)	Rat	LC50 28 mg/l	Category5
Xylene	Ingestion	Rat	LD50 3,523 mg/kg	Category5
Diethylenetriamine	Dermal	Rabbit	LD50 950 mg/kg	Category3
Diethylenetriamine	Ingestion	Rat	LD50 819 mg/kg	Category4
4-Methylpentan-2-one	Dermal	Rabbit	LD50 > 16,000 mg/kg	Not classified
4-Methylpentan-2-one	Inhalation-Vapor (4 hours)	Rat	LC50 >8.2,<16.4 mg/l	Category4
4-Methylpentan-2-one	Ingestion	Rat	LD50 3,038 mg/kg	Category5
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg	Not classified
Ethylbenzene	Inhalation-Vapor (4 hours)	Rat	LC50 17 mg/l	Category4
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg	Category5

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be corrosive	Category 1B
Butan-1-ol		Mild irritant	Category 3
Non-hazardous ingredients		No data available	
Xylene		Mild irritant	Category 3
Diethylenetriamine		Corrosive	Category 1B
4-Methylpentan-2-one	Rabbit	Mild irritant	Category 3
Ethylbenzene		Mild irritant	Category 3

**Serious Eye Damage/Irritation**

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be corrosive	Category 1
Butan-1-ol		Severe irritant	Category 2A
Non-hazardous ingredients		No data available	
Xylene		Mild irritant	Not classified
Diethylenetriamine		Corrosive	Category 1
4-Methylpentan-2-one	Rabbit	Mild irritant	Not classified
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
Butan-1-ol		Not sensitizing	Not classified
Non-hazardous ingredients		No data available	
Xylene		No data available	
Diethylenetriamine		Sensitising	Category 1
4-Methylpentan-2-one	Guinea pig	Not sensitizing	Not classified
Ethylbenzene		Not sensitizing	Not classified

**Respiratory Sensitisation**

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Category 1
Butan-1-ol		No data available	
Non-hazardous ingredients		No data available	
Xylene		No data available	
Diethylenetriamine		Sensitising	Category 1



**3M Scotchkote Epoxy Coating KS16W (Part B)**

4-Methylpentan-2-one		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.	
Butan-1-ol	Ingestion	Not mutagenic	Not classified
Butan-1-ol	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified
Non-hazardous ingredients		No data available	
Xylene	In Vitro	Not mutagenic	Not classified
Xylene	In vivo	Not mutagenic	Not classified
Diethylenetriamine	In Vitro	Not mutagenic	Not classified
4-Methylpentan-2-one	In Vitro	Not mutagenic	Not classified
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified

**Carcinogenicity**

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Butan-1-ol			No data available	
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
Diethylenetriamine	Dermal		Not carcinogenic	Not classified
4-Methylpentan-2-one	Inhalation	Multiple animal species	Carcinogenic.	Category 2
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
Butan-1-ol	Ingestion	Not toxic to reproduction and/or development		NOAEL 5,000 mg/kg/day		
Butan-1-ol	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 3,500 ppm		
Non-hazardous ingredients		No data available				
Xylene	Ingestion	Some positive reproductive/developmental data exist,		LOAEL 2,060 mg/kg/day		

**3M Scotchkote Epoxy Coating KS16W (Part B)**

		but the data are not sufficient for classification				
Xylene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOAEL N/A		
Diethylenetriamine	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 30 mg/kg/day		
4-Methylpentan-2-one	Inhalation	Not toxic to female reproduction	Multiple animal species	NOAEL 8.2 mg/l	2 generation	
4-Methylpentan-2-one	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	13 weeks	
4-Methylpentan-2-one	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 8.2 mg/l	2 generation	
4-Methylpentan-2-one	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL 12.3 mg/l	during organogenesis	
Ethylbenzene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 0.43 mg/l		

**Lactation**

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

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 1 based on component data
Butan-1-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Butan-1-ol	Inhalation	respiratory	May cause		Irritation		Category 3

**3M Scotchkote Epoxy Coating KS16W (Part B)**

		irritation	respiratory irritation		Positive		
Butan-1-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
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 for classification		NOEL 125 mg/kg		Not classified
Diethylenetriamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
4-Methylpentan-2-one	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL 10 mg/m <sup>3</sup>		Category 3
4-Methylpentan-2-one	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL 0.9 mg/l	7 minutes	Category 3
4-Methylpentan-2-one	Inhalation	vascular system	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL Not available	not available	Not classified
4-Methylpentan-2-one	Ingestion	central nervous system	May cause drowsiness or dizziness		LOAEL 900 mg/kg/day		Category 3

**3M Scotchkote Epoxy Coating KS16W (Part B)**

		depression					
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
Butan-1-ol	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification		LOAEL 80 ppm		Not classified
Butan-1-ol	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification		LOEL 50 ppm		Not classified
Butan-1-ol	Inhalation	liver   kidney and/or bladder   respiratory system	Some positive data exist, but the data are not sufficient for classification		LOEL 100 ppm		Not classified
Butan-1-ol	Inhalation	nervous system	All data are negative		NOAEL 3,000 ppm		Not classified
Butan-1-ol	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification		NOEL 30 mg/kg/day		Not classified
Butan-1-ol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		LOEL 800 mg/kg/day		Not classified
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	All data are negative		NOAEL 3.5 mg/l		Not classified

**3M Scotchkote Epoxy Coating KS16W (Part B)**

		muscles   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 1,000 mg/kg/day		Not classified
Diethylenetriamine	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification		NOEL 620 mg/kg/day		Not classified
Diethylenetriamine	Ingestion	liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 80 mg/kg/day		Not classified
4-Methylpentan-2-one	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.8 mg/l	2 weeks	Not classified
4-Methylpentan-2-one	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.41 mg/l	13 weeks	Not classified
4-Methylpentan-2-one	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.4 mg/l	90 days	Not classified
4-Methylpentan-2-one	Inhalation	endocrine system   hematopoietic system	All data are negative	Multiple animal species	NOAEL 0.41 mg/l	90 days	Not classified
4-Methylpentan-2-one	Inhalation	nervous system	All data are negative	Multiple animal species	NOAEL 0.41 mg/l	13 weeks	Not classified
4-Methylpentan-2-one	Inhalation	respiratory system	All data are negative	Multiple animal species	NOAEL 4.1 mg/l	14 weeks	Not classified
4-Methylpentan	Ingestion	endocrine system	Some positive data exist, but the data	Rat	NOAEL 1,000	13 weeks	Not classified

**3M Scotchkote Epoxy Coating KS16W (Part B)**

-2-one		hematopoietic system   liver   kidney and/or bladder	are not sufficient for classification		mg/kg/day		
4-Methylpentan-2-one	Ingestion	heart   immune system   muscles   nervous system   respiratory system	All data are negative	Rat	NOAEL 1,040 mg/kg/day	120 days	Not classified
Ethylbenzene	Inhalation	liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOAEL 1.1 mg/l		Not classified
Ethylbenzene	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.3 mg/l		Not classified
Ethylbenzene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.32 mg/l		Not classified
Ethylbenzene	Inhalation	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.	Category 1
Butan-1-ol	Some positive data exist, but the data are not sufficient for classification	Not classified
Non-hazardous ingredients	Not an aspiration hazard	Not classified
Xylene	Aspiration hazard	Category 1
Diethylenetriamine	Not an aspiration hazard	Not classified
4-Methylpentan-2-one	Some positive data exist, but the data are not sufficient for	Not classified

## 3M Scotchkote Epoxy Coating KS16W (Part B)

	classification	
Ethylbenzene	Aspiration hazard	Category 1

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 3: Harmful to aquatic life.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

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

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. Incinerate in a permitted waste incineration facility. As a disposal alternative, 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

## 3M Scotchkote Epoxy Coating KS16W (Part B)

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-2001-0287-3

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

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

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

## SECTION 15: Regulatory information

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

#### Carcinogenicity

<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
4-Methylpentan-2-one	108-10-1	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 Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. 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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.



H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

**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.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**Revision information:**

Revision Changes:

Risk phrase was modified.

Safety phrase was modified.

Section 9: pH information was modified.

Section 2: Symbol was modified.

Section 16: UK disclaimer was modified.

Section 1: Product identification numbers heading was modified.

Section 1: Product identification numbers was modified.

Section 9: Evaporation Rate information was modified.

Section 9: Viscosity information was modified.

Section 15: Carcinogenicity information was modified.

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

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

Section 9: n-octanol/water coefficient information was modified.

Section 9: Boiling point information was modified.

Section 9: Relative density information was modified.

Section 9: Solubility in water value was modified.

Section 2: Indication of danger information was modified.

Section 12: Contact manufacturer for more detail. was modified.

Section 13: EU waste code (product as sold) information was modified.

Section 12: Acute aquatic hazard information was modified.

Section 2: Other hazards phrase was modified.

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

Section 1: Address was modified.

Copyright was modified.

Section 9: Flash point information was modified.

Section 9: Melting point information was modified.

Section 9: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (UEL) information was modified.

Section 9: Vapour density value was modified.

Section 9: Vapour pressure value was modified.

Section 9: Density information was modified.

Section 9: Property description for optional properties was modified.

Section 8: Occupational exposure limit table was modified.

Section 8: mg/m<sup>3</sup> key 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 - Inhalation information was modified.  
Section 11: Health Effects - Ingestion information was modified.  
Section 11: Health Effects - Other information was modified.  
Section 12: No PBT/vPvB information available warning was modified.  
Section 5: Hazardous combustion products table was modified.  
Section 6: Accidental release personal 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 8: Personal Protection - Eye information was modified.  
Section 8: Personal Protection - Skin/hand information was modified.  
Section 10: Hazardous decomposition or by-products table 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.  
Company logo was added.  
Telephone header was added.  
Company Telephone was added.  
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 9: Autoignition temperature information was added.  
Company Logo was deleted.

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](http://www.3M.com/uk)**