



## 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 EA4 2217 (Part B)

#### Product Identification Numbers

GR-2001-0413-5      GR-2001-0414-3      GR-2001-0416-8

#### 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.  
**Telephone:** +44 (0)1344 858 000  
**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

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225  
Acute Toxicity, Category 4 - Acute Tox. 4; H312  
Acute Toxicity, Category 4 - Acute Tox. 4; H332  
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318  
Skin Corrosion/Irritation, Category 1B - Skin Corr. 1B; H314  
Skin Sensitization, Category 1 - Skin Sens. 1; H317  
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335  
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336

For full text of H phrases, see Section 16.

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

**Indication of danger**

Highly flammable; F; R11  
Harmful; Xn; R20/21/22  
Irritant; Xi; R41  
Irritant; Xi; R37/38  
Sensitizing; R43

For full text of R phrases, see Section 16.

**2.2. Label elements**

**CLP REGULATION (EC) No 1272/2008**

**SIGNAL WORD**

DANGER!

**Symbols:**

GHS02 (Flame) | GHS05 (Corrosion) | GHS07 (Exclamation mark) |

**Pictograms**



Ingredient	CAS Nbr	% by Wt
Xylene	1330-20-7	15 - 30
Butan-1-ol	71-36-3	15 - 30
4-Methylpentan-2-one	108-10-1	5 - 10
Diethylenetriamine	111-40-0	4 - 10

**HAZARD STATEMENTS:**

H225	Highly flammable liquid and vapour.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

**PRECAUTIONARY STATEMENTS**

**Prevention:**

P210A	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260E	Do not breathe vapour or spray.
P280D	Wear protective gloves, protective clothing, and eye/face protection.

**Response:**

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.

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P333 + P313  
P370 + P378G

If skin irritation or rash occurs: Get medical advice/attention.  
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

35% of the mixture consists of components of unknown acute oral toxicity.  
35% of the mixture consists of components of unknown acute dermal toxicity.  
45% of the mixture consists of components of unknown acute inhalation toxicity.  
Contains 67% of components with unknown hazards to the aquatic environment.

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

##### Symbol(s)



Highly  
Flammable



Harmful

##### Contains:

Xylene; Butan-1-ol; Diethylenetriamine

##### Risk phrases

R11 Highly 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

S16 Keep away from sources of ignition - No Smoking.  
S23C Do not breathe vapour or spray.  
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
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine and (chloromethyl)oxirane	31326-29-1	NLP 500-072-8	30 - 40	
Xylene	1330-20-7	EINECS 215-535-7	15 - 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)
Butan-1-ol	71-36-3	EINECS 200-751-6	15 - 30	Xn:R22; Xi:R37-38-41; R10; R67 (EU)  Flam. Liq. 3, H226; Acute Tox.

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				4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H336; STOT SE 3, H335 (CLP)
4-Methylpentan-2-one	108-10-1	EINECS 203-550-1	5 - 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; EUH066 (CLP)
Diethylenetriamine	111-40-0	EINECS 203-865-4	4 - 10	C:R34; Xn:R21-22; R43 (EU) R52/53 (Self Classified)  Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317 (CLP)
4-Hydroxy-4-methylpentan-2-one	123-42-2	EINECS 204-626-7	1 - 5	Xi:R36 (EU)  Eye Irrit. 2, H319 (CLP)
Ethylbenzene	100-41-4	EINECS 202-849-4	< 0.30	F:R11; Xn:R20-48/20; Xn:R65 (EU) R52 (Self Classified)  Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT RE 2, H373 (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****Inhalation**

Remove person to fresh air. If you feel unwell, 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.

**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.

**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 such as dry chemical or carbon dioxide to extinguish.

### **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. 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.

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Dispose of collected material as soon as possible.

### **6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

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. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation.

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Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

#### 7.2. Conditions for safe storage including any incompatibilities

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

#### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethylbenzene	100-41-4	UK HSC	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	UK HSC	TWA:208 mg/m <sup>3</sup> (50 ppm);STEL:416 mg/m <sup>3</sup> (100 ppm)	Skin Notation
Diethylenetriamine	111-40-0	UK HSC	TWA:4.3 mg/m <sup>3</sup> (1 ppm)	Skin Notation
4-Hydroxy-4-methylpentan-2-one	123-42-2	UK HSC	TWA: 241 mg/m <sup>3</sup> (50 ppm); STEL: 362 mg/m <sup>3</sup> (75 ppm)	
Xylene	1330-20-7	UK HSC	TWA:220 mg/m <sup>3</sup> (50 ppm);STEL:441 mg/m <sup>3</sup> (100 ppm)	Skin Notation
Butan-1-ol	71-36-3	UK HSC	STEL:154 mg/m <sup>3</sup> (50 ppm)	Skin Notation

UK HSC : UK Health and Safety Commission  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

#### Biological limit values

Ingredient	CAS Nbr	Agency	Determinant	Biological Specimen	Sampling Time	Value	Additional comments
4-Methylpentan-2-one	108-10-1	UK EH40 BMGVs	4-Methyl pentan-2-one	Urine	EOS	20 umol/L	
Xylene	1330-20-7	UK EH40 BMGVs	Methyl hippuric acid	Creatinine in urine	EOS	650 mmol/mol	

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)  
EOS: End of shift.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

#### 8.2.2. Personal protective equipment (PPE)

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

**Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve

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

<b>Material</b>	<b>Thickness (mm)</b>	<b>Breakthrough Time</b>
Butyl rubber.	No data available	No data available
Neoprene.	No data available	No data available
Polymer laminate	No data available	No data available

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

Neoprene apron.

Apron - polymer laminate

**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**

<b>Physical state</b>	Liquid.
<b>Appearance/Odour</b>	Strong, aromatic amine odour; Clear
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	<i>No data available.</i>
<b>Boiling point/boiling range</b>	$\geq 120$ °C
<b>Melting point</b>	<i>Not applicable.</i>
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Explosive properties</b>	Not classified
<b>Oxidising properties</b>	Not classified
<b>Flash point</b>	11 °C [ <i>Test Method</i> :Closed Cup]
<b>Autoignition temperature</b>	$\geq 450$ °C
<b>Flammable Limits(LEL)</b>	0.9 %
<b>Flammable Limits(UEL)</b>	13 %
<b>Vapour pressure</b>	1,033.2 Pa [ <i>@ 25 °C</i> ] [ <i>Test Method</i> :Estimated]
<b>Relative density</b>	0.96 [ <i>Ref Std</i> :WATER=1]
<b>Water solubility</b>	0 %
<b>Solubility- non-water</b>	<i>No data available.</i>

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<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Evaporation rate</b>	<i>No data available.</i>
<b>Vapour density</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity</b>	<i>No data available.</i>
<b>Density</b>	0.96 g/ml

#### 9.2. Other information

<b>Volatile organic compounds (VOC)</b>	406 g/l [ <i>Test Method: Estimated</i> ] [ <i>Details: For Part A &amp; Part B as mixed</i> ]
<b>Volatile organic compounds (VOC)</b>	446 g/l [ <i>Details: For Part A &amp; Part B as mixed and thinned</i> ]
<b>Percent volatile</b>	58 %

## 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>
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None known.	
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Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 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**

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

**Skin contact**

May be harmful in contact with skin.

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.

**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.

**Ingestion**

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 additional health effects (see below).

**Additional Health Effects:****Single exposure may cause target organ effects:**

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

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

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE2,000 - 5,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE300 - 2,000 mg/kg
Butan-1-ol	Dermal	Rabbit	LD50 3,402 mg/kg
Butan-1-ol	Inhalation-	Rat	LC50 24 mg/l

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	Vapor (4 hours)		
Butan-1-ol	Ingestion	Rat	LD50 2,290 mg/kg
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation-Vapor (4 hours)	Rat	LC50 29 mg/l
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
4-Methylpentan-2-one	Dermal	Rabbit	LD50 > 16,000 mg/kg
4-Methylpentan-2-one	Inhalation-Vapor (4 hours)	Rat	LC50 >8.2,<16.4 mg/l
4-Methylpentan-2-one	Ingestion	Rat	LD50 3,038 mg/kg
Diethylenetriamine	Dermal	Rabbit	LD50 1,045 mg/kg
Diethylenetriamine	Ingestion	Rat	LD50 819 mg/kg
4-Hydroxy-4-methylpentan-2-one	Dermal	Rabbit	LD50 13,645 mg/kg
4-Hydroxy-4-methylpentan-2-one	Ingestion	Rat	LD50 4,000 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation-Vapor (4 hours)	Rat	LC50 17.4 mg/l
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Butan-1-ol	Rabbit	Mild irritant
Xylene	Rabbit	Mild irritant
4-Methylpentan-2-one	Rabbit	Mild irritant
Diethylenetriamine	Rabbit	Corrosive
4-Hydroxy-4-methylpentan-2-one	Rabbit	No significant irritation
Ethylbenzene	Rabbit	Mild irritant

**Serious Eye Damage/Irritation**

Name	Species	Value
Butan-1-ol	Rabbit	Severe irritant
Xylene	Rabbit	Mild irritant
4-Methylpentan-2-one	Rabbit	Mild irritant
Diethylenetriamine	Rabbit	Corrosive
4-Hydroxy-4-methylpentan-2-one	Rabbit	Severe irritant
Ethylbenzene	Rabbit	Moderate irritant

**Skin Sensitisation**

Name	Species	Value
Butan-1-ol	Human	Not sensitizing
4-Methylpentan-2-one	Guinea pig	Not sensitizing
Diethylenetriamine	Guinea pig	Sensitising
Ethylbenzene	Human	Not sensitizing

**Respiratory Sensitisation**

Name	Species	Value
Diethylenetriamine	Human	Sensitising

**Germ Cell Mutagenicity**

Name	Route	Value
Butan-1-ol	In vivo	Not mutagenic
Butan-1-ol	In Vitro	Some positive data exist, but the data are not sufficient for classification

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Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
4-Methylpentan-2-one	In Vitro	Not mutagenic
Diethylenetriamine	In Vitro	Not mutagenic
4-Hydroxy-4-methylpentan-2-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple animal species	Not carcinogenic
Xylene	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
4-Methylpentan-2-one	Inhalation	Multiple animal species	Carcinogenic.
Diethylenetriamine	Dermal	Multiple animal species	Not carcinogenic
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic.

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Butan-1-ol	Ingestion	Not toxic to female reproduction	Rat	NOAEL 5,000 mg/kg/day	prematuring & during gestation
Butan-1-ol	Ingestion	Not toxic to male reproduction	Rat	NOAEL 500 mg/kg/day	4 days
Butan-1-ol	Inhalation	Not toxic to male reproduction	Rat	NOAEL 18 mg/l	6 weeks
Butan-1-ol	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 10.6 mg/l	during gestation
Xylene	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Xylene	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Xylene	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Xylene	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	during organogenesis
Xylene	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	during gestation
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

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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
Diethylenetriamine	Ingestion	Not toxic to male reproduction	Rat	NOAEL 300 mg/kg/day	28 days
Diethylenetriamine	Ingestion	Not toxic to development	Rat	NOAEL 300 mg/kg/day	prematuring & during gestation
Diethylenetriamine	Ingestion	Some positive female reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 30 mg/kg/day	prematuring & during gestation
4-Hydroxy-4-methylpentan-2-one	Ingestion	Some positive female reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	prematuring & during gestation
4-Hydroxy-4-methylpentan-2-one	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	prematuring & during gestation
4-Hydroxy-4-methylpentan-2-one	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	prematuring & during gestation
Ethylbenzene	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 4.3 mg/l	prematuring & during gestation

**Lactation**

Name	Route	Species	Value
Xylene	Ingestion	Mouse	Does not cause effects on or via lactation

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

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Butan-1-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Butan-1-ol	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Butan-1-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Xylene	Inhalation	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.5 mg/l	not available
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg	not applicable
4-Methylpentan-2-one	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 0.10 mg/l	2 hours
4-Methylpentan-2-one	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL 0.9 mg/l	7 minutes
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

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4-Methylpentan-2-one	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 900 mg/kg	not applicable
Diethylenetriamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
4-Hydroxy-4-methylpentan-2-one	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
4-Hydroxy-4-methylpentan-2-one	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
4-Hydroxy-4-methylpentan-2-one	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
4-Hydroxy-4-methylpentan-2-one	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1,882 mg/kg	not applicable
4-Hydroxy-4-methylpentan-2-one	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,882 mg/kg	not applicable
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Butan-1-ol	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.3 mg/l	3 months
Butan-1-ol	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Butan-1-ol	Inhalation	liver   kidney and/or bladder   respiratory system	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	3 months
Butan-1-ol	Inhalation	nervous system	All data are negative	Rat	NOAEL 9.09 mg/l	13 weeks
Butan-1-ol	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	13 weeks
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	Inhalation	heart   endocrine system   hematopoietic system   muscles   kidney and/or bladder   respiratory system	All data are negative	Multiple animal species	NOAEL 3.5 mg/l	13 weeks
Xylene	Ingestion	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 900 mg/kg/day	2 weeks
Xylene	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,500 mg/kg/day	90 days
Xylene	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	heart   skin	All data are negative	Mouse	NOAEL	103 weeks

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		endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory system			1,000 mg/kg/day	
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
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
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
4-Methylpentan-2-one	Inhalation	respiratory system	All data are negative	Multiple animal species	NOAEL 4.1 mg/l	14 weeks
4-Methylpentan-2-one	Inhalation	endocrine system   hematopoietic system	All data are negative	Multiple animal species	NOAEL 0.41 mg/l	90 days
4-Methylpentan-2-one	Inhalation	nervous system	All data are negative	Multiple animal species	NOAEL 0.41 mg/l	13 weeks
4-Methylpentan-2-one	Ingestion	endocrine system   hematopoietic system   liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	13 weeks
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
Diethylenetriamine	Ingestion	endocrine system   liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,210 mg/kg/day	90 days
4-Hydroxy-4-methylpentan-2-one	Inhalation	blood   liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4.5 mg/l	6 weeks
4-Hydroxy-4-methylpentan-2-one	Ingestion	endocrine system   blood   liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	44 days
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	2 years
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
Ethylbenzene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.4 mg/l	5 days
Ethylbenzene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3.3 mg/l	103 weeks
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair   muscles	All data are negative	Multiple animal species	NOAEL 4.2 mg/l	90 days
Ethylbenzene	Inhalation	heart   immune system   respiratory system	All data are negative	Multiple animal species	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Ingestion	liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 680 mg/kg/day	6 months

**3M Scotchkote Epoxy Coating EA4 2217 (Part B)****Aspiration Hazard**

Name	Value
Butan-1-ol	Some positive data exist, but the data are not sufficient for classification
Xylene	Aspiration hazard
4-Methylpentan-2-one	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Butan-1-ol	71-36-3	Water flea	Experimental	48 hours	EC50	>500 mg/l
Butan-1-ol	71-36-3	Green Algae	Experimental	96 hours	EC50	225 mg/l
Butan-1-ol	71-36-3	Ricefish	Experimental	96 hours	LC50	>100 mg/l
4-Hydroxy-4-methylpentan-2-one	123-42-2	Bluegill	Experimental	96 hours	LC50	420 mg/l
4-Hydroxy-4-methylpentan-2-one	123-42-2	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
4-Hydroxy-4-methylpentan-2-one	123-42-2	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
Diethylenetriamine	111-40-0	Water flea	Experimental	48 hours	EC50	16 mg/l
Diethylenetriamine	111-40-0	Golden Orfe	Experimental	96 hours	LC50	248 mg/l
Diethylenetriamine	111-40-0	Green Algae	Experimental	96 hours	EC50	345.6 mg/l
Ethylbenzene	100-41-4	Rainbow trout	Experimental	96 hours	LC50	4.2 mg/l
Ethylbenzene	100-41-4	Green Algae	Experimental	96 hours	EC50	3.6 mg/l
Ethylbenzene	100-41-4	Water flea	Experimental	24 hours	EC50	1.81 mg/l
4-Methylpentan-2-one	108-10-1	Water flea	Experimental	48 hours	EC50	170 mg/l
4-Methylpentan-2-one	108-10-1	Goldfish	Experimental	24 hours	LC50	460 mg/l
4-Methylpentan-2-one	108-10-1	Green Algae	Experimental	96 hours	EC50	400 mg/l
Butan-1-ol	71-36-3	Green Algae	Experimental	72 hours	NOEC	180 mg/l

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Butan-1-ol	71-36-3	Water flea	Experimental	21 days	NOEC	4.1 mg/l
4-Hydroxy-4-methylpentan-2-one	123-42-2	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
4-Hydroxy-4-methylpentan-2-one	123-42-2	Water flea	Experimental	21 days	NOEC	>100 mg/l
Diethylenetriamine	111-40-0	Green algae	Experimental	72 hours	NOEC	10.2 mg/l
Diethylenetriamine	111-40-0	Three-spined stickleback	Experimental	28 days	NOEC	>10 mg/l
Diethylenetriamine	111-40-0	Water flea	Experimental	21 days	NOEC	5.6 mg/l
4-Methylpentan-2-one	108-10-1	Water flea	Experimental	21 days	NOEC	7.8 mg/l
4-Methylpentan-2-one	108-10-1	Fathead minnow	Experimental	32 days	NOEC	57 mg/l
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine and (chloromethyl) oxirane	31326-29-1		Data not available or insufficient for classification			
Xylene	1330-20-7		Data not available or insufficient for classification			

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Ethylbenzene	100-41-4	Experimental Photolysis		Photolytic half-life (in air)	4.26 days (t <sub>1/2</sub> )	Other methods
4-Methylpentan-2-one	108-10-1	Experimental Photolysis		Photolytic half-life (in air)	2.28 days (t <sub>1/2</sub> )	Other methods
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine and (chloromethyl) oxirane	31326-29-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Xylene	1330-20-7	Data not	N/A	N/A	N/A	N/A



**3M Scotchkote Epoxy Coating EA4 2217 (Part B)**

		available or insufficient for classification				
4-Methylpentan-2-one	108-10-1	Experimental Biodegradation	14 days	BOD	84 % weight	OECD 301C - MITI test (I)
Butan-1-ol	71-36-3	Experimental Biodegradation	19 days	Dissolv. Organic Carbon Deplet	98 % weight	OECD 301E - Modified OECD Scre
4-Hydroxy-4-methylpentan-2-one	123-42-2	Experimental Biodegradation	14 days	BOD	90 % weight	OECD 301C - MITI test (I)
Ethylbenzene	100-41-4	Laboratory Biodegradation	14 days	BOD	81 % weight	Other methods
Diethylenetriamine	111-40-0	Experimental Biodegradation	14 days	BOD	0 % weight	OECD 301C - MITI test (I)

**12.3 : Bioaccumulative potential**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with N-(2-aminoethyl)-1,2-ethanediamine and (chloromethyl) oxirane	31326-29-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Xylene	1330-20-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Diethylenetriamine	111-40-0	Experimental BCF-Carp	42 days	Bioaccumulation factor	6.3	OECD 305E - Bioaccumulation flow-through fish test
Ethylbenzene	100-41-4	Experimental BCF - Other		Bioaccumulation factor	15	Other methods
4-Methylpentan-2-one	108-10-1	Experimental Bioconcentration		Log Kow	1.31	Other methods
Butan-1-ol	71-36-3	Experimental Bioconcentration		Log Kow	0.88	Other methods
4-Hydroxy-4-methylpentan-2-one	123-42-2	Experimental Bioconcentration		Log Kow	-0.14	Other methods

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5. Results of the PBT and vPvB assessment**

### 3M Scotchkote Epoxy Coating EA4 2217 (Part B)

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

#### 12.6. Other adverse effects

Material	CAS Nbr	Ozone Depletion Potential	Global Warming Potential
MIBK	108-10-1	0	

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Incinerate uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerised) material in a permitted industrial waste facility. Proper destruction may require the use of additional fuel during incineration processes. If no other disposal options are available, waste product that has been completely cured or polymerised may be placed in a landfill properly designed for industrial waste. 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 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances

## SECTION 14: Transportation information

GR-2001-0413-5

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

**IMDG-CODE:** UN1263, PAINT RELATED MATERIAL, 3, II, IMDG-Code segregation code: NONE, EMS: FE,SE.

**ICAO/IATA:** FORBIDDEN: PACKAGE SIZE EXCEEDS IATA QUANTITY LIMITATIONS

GR-2001-0414-3, GR-2001-0416-8

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

**IMDG-CODE:** UN1263, PAINT RELATED MATERIAL, 3, II, IMDG-Code segregation code: NONE, 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>
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

## 3M Scotchkote Epoxy Coating EA4 2217 (Part B)

Xylene

1330-20-7

Gr. 3: Not classifiable

International Agency  
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 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 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

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H373	May cause damage to organs through prolonged or repeated exposure.

### List of relevant R-phrases

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52	Harmful to aquatic organisms.

### 3M Scotchkote Epoxy Coating EA4 2217 (Part B)

R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R65	Harmful: May cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

#### Revision information:

##### Revision Changes:

Section 8: Eye/face protection information information was modified.  
Section 8: Respiratory protection - recommended respirators information information was modified.  
Section 1: Product identification numbers heading information was modified.  
Section 16: List of relevant R phrase information information was modified.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Bioaccumulative potential information information was modified.  
Section 15: Regulations - Inventories information was modified.  
Copyright information was modified.  
Section 8: Occupational exposure limit table information was modified.  
OEL Reg Agency Desc information was modified.  
Telephone header information was modified.  
Company Telephone information was modified.  
Section 11: Aspiration Hazard Table information was modified.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Additional Health Effects heading information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Respiratory Sensitization Table information was modified.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 11: Health Effects - Inhalation information information was modified.  
Section 11: Health Effects - Ingestion information information was modified.  
Section 5: Fire - Extinguishing media information information was modified.  
Section 6: Accidental release personal information information was modified.  
Section 6: Accidental release clean-up information information was modified.  
Section 7: Precautions safe handling information information was modified.  
Section 7: Conditions safe storage information was modified.  
Section 8: Personal Protection - Eye information information was modified.  
Section 8: Personal Protection - Skin/hand information information was modified.  
Section 8: Personal Protection - Respiratory Information information was modified.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Section 4: First aid for ingestion (swallowing) information information was modified.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.  
Section 11: Single exposure may cause target organ effects heading information was modified.  
Section 11: Prolonged or repeated exposure may cause target organ effects heading information was modified.  
Section 11: Single exposure may cause standard phrases information was modified.  
Section 8: Personal Protection - Skin/body information information was added.  
Section 8: Skin protection - protective clothing information information was added.  
Section 12: Other adverse effects table ODP column header information was added.  
Section 12: Other adverse effects table GWP column header information was added.  
Section 12: Other Adverse effects heading information was added.  
Section 12: Other adverse effects table Material column header information was added.

Section 12: Other adverse effects table CAS No column header information was added.

Label: Signal Word - Header information was added.

Label: Signal Word information was added.

Label: CLP Classification - Header information was added.

Label: CLP Classification information was added.

Label: CLP Classification information was added.

Label: CLP Classification - Header information was added.

Label: CLP Percent Unknown information was added.

Label: CLP Percent Unknown information was added.

Label: CLP Percent Unknown information was added.

Label: CLP Percent Unknown information was added.

Label: Graphic information was added.

Label: Graphic information was added.

Label: Symbol information was added.

Label: Symbol information was added.

Label: CLP Precautionary - Prevention information was added.

Label: CLP Precautionary - Prevention - Header information was added.

Label: CLP Precautionary - Response information was added.

Label: CLP Precautionary - Response - Header information was added.

Label: Precautionary Statement - Header information was added.

CLP: Ingredient table information was added.

Section 8: Occupational exposure limit table information was added.

Section 2: 2.2 & 2.3. CLP REGULATION heading information was added.

Label: CLP Ingredients table Ingredient heading information was added.

Label: CLP Ingredients table CAS No heading information was added.

Label: CLP Ingredients table Percent by Wt heading information was added.

Section 2: H phrase reference information was added.

Legend description information was added.

BLV Reg Agency Desc information was added.

Section 11: Disclosed components not in tables text information was added.

Section 12: Classification Warning information was added.

Section 11: Classification disclaimer information was added.

Section 11: Aspiration Hazard table - Name heading information was added.

Section 11: Aspiration Hazard table - Value heading information was added.

Section 8: 8.1.1 Biological limit values table heading information was added.

Section 8: BLV table information was added.

Section 8: BLV table ingredient column heading information was added.

Section 8: BLV table cas nbr column heading information was added.

Section 8: BLV table agency column heading information was added.

Section 8: BLV table cas nbr column heading information was added.

Section 8: BLV table biological specimen Column heading information was added.

Section 8: BLV table sampling time Column heading information was added.

Section 8: BLV table value Column heading information was added.

Section 8: BLV table additional comments Column heading information was added.

Section 11: Respiratory Sensitization table - Name heading information was added.

Section 11: Respiratory Sensitization table - Species heading information was added.

Section 11: Respiratory Sensitization table - Value heading information was added.

Section 11: Skin Sensitization table - Name heading information was added.

Section 11: Skin Sensitization table - Species heading information was added.

Section 11: Skin Sensitization table - Value heading information was added.

Section 11: Serious Eye Damage/Irritation table - Name heading information was added.

Section 11: Serious Eye Damage/Irritation table - Species heading information was added.

Section 11: Serious Eye Damage/Irritation table - Value heading information was added.

Section 11: Skin Corrosion/Irritation table - Name heading information was added.

Section 11: Skin Corrosion/Irritation table - Species heading information was added.

Section 11: Skin Corrosion/Irritation table - Value heading information was added.

Section 11: Germ Cell Mutagenicity table - Name heading information was added.  
Section 11: Germ Cell Mutagenicity table - Route heading information was added.  
Section 11: Germ Cell Mutagenicity table - Value heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Name heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Route heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Target Organ(s) heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Value heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Species heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Test Result heading information was added.  
Section 11: Specific Target Organ Toxicity - repeated exposure table - Exposure Duration heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Name heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Route heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Target Organ(s) heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Value heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Species heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Test Result heading information was added.  
Section 11: Specific Target Organ Toxicity - single exposure table - Exposure Duration heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Name heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Route heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Value heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Species heading information was added.  
Section 11: Reproductive and/or Developmental Effects table - Test Result heading information was added.  
Section 11: Reproductive and/or Developmental Effects text information was added.  
Section 11: Carcinogenicity table - Name heading information was added.  
Section 11: Carcinogenicity table - Route heading information was added.  
Section 11: Carcinogenicity table - Species heading information was added.  
Section 11: Carcinogenicity table - Value heading information was added.  
Section 8: glove data - Material heading information was added.  
Section 8: glove data - Thickness heading information was added.  
Section 8: glove data - Breakthrough Time heading information was added.  
Section 8: glove data value information was added.  
Section 8: Skin protection - recommended gloves information information was deleted.  
Prints No Data if Adverse effects information is not present information was deleted.  
Section 11: Classification disclaimer information was deleted.  
Section 11: Exposure Duration table heading information was deleted.  
Section 11: Test Result table heading information was deleted.  
Section 11: Health Effects - Other information information was deleted.  
Section 12: Classification Warning information was deleted.

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