



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 Primer MC 135, White (Part A)

Product identification numbers

GR-2001-0550-4 GR-2001-0552-0 GR-2001-3390-2 GR-2001-3392-8

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

Identified uses

Coating.

1.3. Details of the supplier of the substance or mixture

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

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

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

Indication of danger

Irritant.

Flammable

Sensitising

2.2. Label elements

SUPPLEMENTAL INFORMATION

Supplemental Hazard Statements:

3M Scotchkote Epoxy Primer MC 135, White (Part A)

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

Xi Irritant.

Contains:

Bisphenol A diglycidyl ether - bisphenol A copolymer

Risk phrases

R10 Flammable.
R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
R52/53 Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety phrases

S23C Do not breathe vapour or spray.
S51 Use only in well ventilated areas.
S24 Avoid contact with skin.
S37 Wear suitable gloves.
S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Special provisions concerning the labelling of certain substances

Contains epoxy resins. See information supplied by manufacturer.

Notes on labelling

Nota P applied to CAS 64742-95-6.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3		20 - 30	Xi:R36-38; R43 (Self Classified) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 (Self Classified)
Non-hazardous ingredients	Mixture		15 - 25	
Titanium dioxide	13463-67-7	EINECS 236-675-5	10 - 20	
Mica-Group Minerals	12001-26-2		1 - 10	
Talc	14807-96-6	EINECS 238-877-9	1 - 10	
Xylene	1330-20-7	EINECS 215-535-7	1 - 10	Xn:R20-21; Xi:R38; R10 - Nota C (EU)

3M Scotchkote Epoxy Primer MC 135, White (Part A)

				Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 - Nota C (CLP)
Solvent naphtha (petroleum), light aromatic	64742-95-6	EINECS 265-199-0	1 - 10	Xn:R65 - Nota 4,P (EU) R10 (Vendor) R66; R67 (Self Classified) Asp. Tox. 1, H304 - Nota P (CLP) Flam. Liq. 3, H226 (Vendor) STOT SE 3, H336; EUH066 (Self Classified)
1,2,4-Trimethylbenzene	95-63-6	EINECS 202-436-9	1 - 10	Xn:R20; Xi:R36-37-38; N:R51/53; R10 (EU) Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 2, H411 (CLP)
Butan-1-ol	71-36-3	EINECS 200-751-6	1 - 10	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)
Synthetic amorphous silica, fumed, crystalline free	112945-52-5		1 - 5	
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	1 - 5	F:R11; Xn:R20 (EU) Flam. Liq. 2, H225; Acute Tox. 4, H332 (CLP)
Quartz	14808-60-7	EINECS 238-878-4	< 1	Xn:R48/20 (Vendor) STOT RE 1, H372 (Self Classified)

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

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Inhalation

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

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

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

5.3. Advice for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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: 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

3M Scotchkote Epoxy Primer MC 135, White (Part 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

Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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 ³ (100 ppm);STEL:552 mg/m ³ (125 ppm)	Skin Notation
Silica, amorphous	112945-52-5	Health and Safety Comm. (UK)	TWA(as inhalable dust):6 mg/m ³ ;TWA(as respirable dust):2.4 mg/m ³	
Mica-Group Minerals	12001-26-2	Health and Safety Comm. (UK)	TWA (Inhalable): 10 mg/m ³ ; TWA (respirable): 0.8 mg/m ³	
4-Hydroxy-4-methylpentan-2-one	123-42-2	Health and Safety Comm. (UK)	TWA: 241 mg/m ³ (50 ppm); STEL: 362 mg/m ³ (75 ppm)	
Xylene	1330-20-7	Health and Safety Comm. (UK)	TWA:220 mg/m ³ (50 ppm);STEL:441 mg/m ³ (100 ppm)	Skin Notation
Titanium dioxide	13463-67-7	Health and Safety Comm. (UK)	TWA(Inhalable):10 mg/m ³ ;TWA(respirable):4 mg/m ³	
Talc	14807-96-6	Health and Safety Comm. (UK)	TWA(as respirable dust):1 mg/m ³	

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Silica, crystalline (airborne particles of respirable size)	14808-60-7	Health and Safety Comm. (UK)	TWA(respirable):0.1 mg/m ³	
Butan-1-ol	71-36-3	Health and Safety Comm. (UK)	STEL:154 mg/m ³ (50 ppm)	Skin Notation
Benzene, trimethyl-	95-63-6	Health and Safety Comm. (UK)	TWA:125 mg/m ³ (25 ppm)	

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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 and protective clothing.

Gloves made from the following material(s) are recommended: Polyvinyl alcohol (PVA).

Polymer laminate

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

Rubber boots.

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:

Full facepiece air-purifying respirator suitable for organic vapours

Full facepiece air-purifying respirator suitable for organic vapours and particulates

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid.

Appearance/Odour

Aromatic solvent odour; White colour

pH

Not applicable.

Boiling point/boiling range

≥ 120 °C

Melting point

Not applicable.

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Flammability (solid, gas)	Flammable liquid: Category 3.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	30 °C [<i>Test Method</i> :Closed Cup]
Autoignition temperature	>=400 °C
Flammable Limits(LEL)	1 % volume
Flammable Limits(UEL)	13 % volume
Vapour pressure	1,586.5 Pa [<i>@</i> 25 °C]
Relative density	1.46 [<i>Ref Std</i> :WATER=1]
Water solubility	Negligible
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	>=1 Pa-s
Density	1.46 g/ml

9.2. Other information

Volatile organic compounds (VOC)	474 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :EU Definition (Part A & B mix)]
Volatile organic compounds (VOC)	508 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :EU Definition (Part A & B mix - 10% thinned)]
Percent volatile	26.78 % 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.

10.5 Incompatible materials

Amines.
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 Primer MC 135, White (Part A)

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Eye contact

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

Skin contact

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

Inhalation

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

Ingestion

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

Target Organ Effects:

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:

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.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg
Non-hazardous ingredients			No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	Rat	LD50 > 1,600 mg/kg
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Rat	LD50 > 1,000 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 7 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Talc	Ingestion		LD50 Not available
Butan-1-ol	Dermal	Rabbit	LD50 3,402 mg/kg
Butan-1-ol	Inhalation-Vapor (4	Rat	LC50 > 24 mg/l

3M Scotchkote Epoxy Primer MC 135, White (Part A)

	hours)		
Butan-1-ol	Ingestion	Rat	LD50 2,290 mg/kg
Xylene	Dermal	Rabbit	LD50 > 4,300 mg/kg
Xylene	Inhalation-Vapor (4 hours)	Rat	LC50 28 mg/l
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
Mica-Group Minerals	Dermal		LD50 estimated to be > 5,000 mg/kg
Mica-Group Minerals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
1,2,4-Trimethylbenzene	Dermal	Rabbit	LD50 > 3,160 mg/kg
1,2,4-Trimethylbenzene	Inhalation-Vapor (4 hours)	Rat	LC50 18 mg/l
1,2,4-Trimethylbenzene	Ingestion	Rat	LD50 3,400 mg/kg
Solvent naphtha (petroleum), light aromatic	Dermal	Rabbit	LD50 > 2,000 mg/kg
Solvent naphtha (petroleum), light aromatic	Inhalation-Vapor (4 hours)	Rat	LC50 > 5.2 mg/l
Solvent naphtha (petroleum), light aromatic	Ingestion	Rat	LD50 > 5,000 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 mg/l
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Synthetic amorphous silica, fumed, crystalline free	Dermal	Rabbit	LD50 > 5,000 mg/kg
Synthetic amorphous silica, fumed, crystalline free	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Rat	LD50 > 5,110 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Non-hazardous ingredients		No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer		Mild irritant
Titanium dioxide		No significant irritation
Talc	Rabbit	No significant irritation
Butan-1-ol		Mild irritant
Xylene		Mild irritant
Mica-Group Minerals		No data available
1,2,4-Trimethylbenzene		Mild irritant
Solvent naphtha (petroleum), light aromatic		Minimal irritation
4-Hydroxy-4-methylpentan-2-one		Minimal irritation
Ethylbenzene		Mild irritant
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation
Quartz		No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Non-hazardous ingredients		No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer		Moderate irritant
Titanium dioxide		Mild irritant
Talc	Rabbit	No significant irritation
Butan-1-ol		Severe irritant
Xylene		Mild irritant

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Mica-Group Minerals		No data available
1,2,4-Trimethylbenzene		Moderate irritant
Solvent naphtha (petroleum), light aromatic		Mild irritant
4-Hydroxy-4-methylpentan-2-one		Severe irritant
Ethylbenzene		Moderate irritant
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation
Quartz		No data available

Skin Sensitisation

Name	Species	Value
Non-hazardous ingredients		No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer		Sensitising
Titanium dioxide		Not sensitizing
Talc		No data available
Butan-1-ol		Not sensitizing
Xylene		No data available
Mica-Group Minerals		No data available
1,2,4-Trimethylbenzene		Not sensitizing
Solvent naphtha (petroleum), light aromatic		Not sensitizing
4-Hydroxy-4-methylpentan-2-one		No data available
Ethylbenzene		Not sensitizing
Synthetic amorphous silica, fumed, crystalline free	Human and animal	Not sensitizing
Quartz		No data available

Respiratory Sensitisation

Name	Species	Value
Non-hazardous ingredients		No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer	Human	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide		No data available
Talc	Human	Not sensitizing
Butan-1-ol		No data available
Xylene		No data available
Mica-Group Minerals		No data available
1,2,4-Trimethylbenzene		No data available
Solvent naphtha (petroleum), light aromatic		No data available
4-Hydroxy-4-methylpentan-2-one		No data available
Ethylbenzene		No data available
Synthetic amorphous silica, fumed, crystalline free		No data available
Quartz		No data available

Germ Cell Mutagenicity

Name	Route	Value
Non-hazardous ingredients		No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer	In vivo	Not mutagenic
Bisphenol A diglycidyl ether - bisphenol A copolymer	In Vitro	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	Ingestion	Not mutagenic
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Butan-1-ol	Ingestion	Not mutagenic
Butan-1-ol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Mica-Group Minerals		No data available

3M Scotchkote Epoxy Primer MC 135, White (Part A)

1,2,4-Trimethylbenzene	In Vitro	Not mutagenic
Solvent naphtha (petroleum), light aromatic	In Vitro	Some positive data exist, but the data are not sufficient for classification
4-Hydroxy-4-methylpentan-2-one	In vivo	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification
Synthetic amorphous silica, fumed, crystalline free	In Vitro	Not mutagenic
Quartz	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Non-hazardous ingredients			No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	Ingestion		Not carcinogenic
Titanium dioxide	Inhalation		Some positive data exist, but the data are not sufficient for classification
Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Butan-1-ol			No data available
Xylene	Dermal		Not carcinogenic
Xylene	Ingestion		Not carcinogenic
Xylene	Inhalation		Some positive data exist, but the data are not sufficient for classification
Mica-Group Minerals			No data available
1,2,4-Trimethylbenzene			No data available
Solvent naphtha (petroleum), light aromatic	Dermal		Not carcinogenic
Solvent naphtha (petroleum), light aromatic	Inhalation		Some positive data exist, but the data are not sufficient for classification
4-Hydroxy-4-methylpentan-2-one			No data available
Ethylbenzene	Inhalation		Carcinogenic.
Synthetic amorphous silica, fumed, crystalline free	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Quartz	Inhalation		Carcinogenic.

Reproductive Toxicity
Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Non-hazardous ingredients		No data available			
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Not toxic to female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Not toxic to male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	Not toxic to development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	Not toxic to development	Rat	NOAEL 750 mg/kg/day	2 generation

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Titanium dioxide		No data available			
Talc	Ingestion	Not toxic to development	Rat	NOAEL 1,600 mg/kg	during organogenesis
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	
Xylene	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOAEL 2,060 mg/kg/day	
Xylene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOAEL N/A	
Mica-Group Minerals		No data available			
1,2,4-Trimethylbenzene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 1.5 mg/l	
Solvent naphtha (petroleum), light aromatic	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 500 ppm	
4-Hydroxy-4-methylpentan-2-one	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 300 mg/kg/day	
Ethylbenzene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 0.43 mg/l	
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Quartz		No data available			

Lactation

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Name	Route	Species	Value
Xylene	Ingestion		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
Non-hazardous ingredients			No data available			
Titanium dioxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Talc			No data available			
Butan-1-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Butan-1-ol	Inhalation	respiratory irritation	May cause respiratory irritation		Irritation Positive	
Butan-1-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Xylene	Inhalation	auditory system	Causes damage to organs		LOAEL 6.3 mg/l	
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.43 mg/l	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
Xylene	Inhalation	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL 3.5 mg/l	
Xylene	Inhalation	nervous system	All data are negative		NOAEL 0.65 mg/l	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Xylene	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL 125 mg/kg	
Mica-Group Minerals	Inhalation	respiratory irritation	Some positive data exist, but the data are not		Irritation Positive	

3M Scotchkote Epoxy Primer MC 135, White (Part A)

			sufficient for classification			
1,2,4-Trimethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
1,2,4-Trimethylbenzene	Inhalation	respiratory irritation	May cause respiratory irritation		Irritation Positive	
1,2,4-Trimethylbenzene	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		LOAEL 3.8 mg/l	
1,2,4-Trimethylbenzene	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Solvent naphtha (petroleum), light aromatic	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Solvent naphtha (petroleum), light aromatic	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Solvent naphtha (petroleum), light aromatic	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
4-Hydroxy-4-methylpentan-2-one	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL NA	
4-Hydroxy-4-methylpentan-2-one	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
4-Hydroxy-4-methylpentan-2-one	Ingestion	central nervous system depression	May cause drowsiness or dizziness			
4-Hydroxy-4-methylpentan-2-one	Ingestion	blood liver	Some positive data exist, but the data are not sufficient for classification		LOAEL 1,882 mg/kg	
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.43 mg/l	
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Synthetic amorphous silica, fumed, crystalline free			No data available			
Quartz	Inhalation	respiratory irritation	Some positive data exist, but the data are not		Irritation Positive	

3M Scotchkote Epoxy Primer MC 135, White (Part A)

			sufficient for classification			
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Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Non-hazardous ingredients			No data available			
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	2 years
Bisphenol A diglycidyl ether - bisphenol A copolymer	Dermal	nervous system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Bisphenol A diglycidyl ether - bisphenol A copolymer	Ingestion	auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder	All data are negative	Rat	NOAEL 1,000 mg/kg/day	28 days
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 10 mg/m ³	
Titanium dioxide	Inhalation	pulmonary fibrosis	All data are negative		NOAEL N/A	
Talc	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
Talc	Inhalation	pulmonary fibrosis respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 18 mg/m ³	113 weeks
Butan-1-ol	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification		LOAEL 80 ppm	
Butan-1-ol	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification		LOEL 50 ppm	
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	
Butan-1-ol	Inhalation	nervous system	All data are negative		NOAEL 3,000 ppm	
Butan-1-ol	Ingestion	blood	Some positive		NOEL 30	

3M Scotchkote Epoxy Primer MC 135, White (Part A)

			data exist, but the data are not sufficient for classification		mg/kg/day	
Butan-1-ol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		LOEL 800 mg/kg/day	
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.4 mg/l	
Xylene	Inhalation	auditory system	May cause damage to organs through prolonged or repeated exposure		LOAEL 7.8 mg/l	
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
Xylene	Inhalation	heart endocrine system hematopoietic system muscles kidney and/or bladder respiratory system	All data are negative		NOAEL 3.5 mg/l	
Xylene	Ingestion	auditory system	Some positive data exist, but the data are not sufficient for classification		LOEL 900 mg/kg/day	
Xylene	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
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	
Mica-Group Minerals	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	
1,2,4-Trimethylbenzene	Inhalation	hematopoietic system nervous system	Some positive data exist, but the data are not sufficient for classification		LOAEL 0.1 mg/l	
1,2,4-	Inhalation	respiratory	Some positive		NOAEL N/A	

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Trimethylbenzene		system	data exist, but the data are not sufficient for classification			
1,2,4-Trimethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 0.5 mg/l	
1,2,4-Trimethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 0.1 mg/l	
1,2,4-Trimethylbenzene	Inhalation	heart endocrine system immune system	All data are negative		NOAEL 1.2 mg/l	
1,2,4-Trimethylbenzene	Ingestion	hematopoietic system liver immune system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 100 mg/kg/day	
Solvent naphtha (petroleum), light aromatic	Inhalation	hematopoietic system liver	Some positive data exist, but the data are not sufficient for classification		NOEL 0.9 mg/l	
Solvent naphtha (petroleum), light aromatic	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 12.6 mg/l	
4-Hydroxy-4-methylpentan-2-one	Inhalation	blood	Some positive data exist, but the data are not sufficient for classification		NOEL 1.035 mg/l	
4-Hydroxy-4-methylpentan-2-one	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 0.232 mg/l	
4-Hydroxy-4-methylpentan-2-one	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 1.035 mg/l	
4-Hydroxy-4-methylpentan-2-one	Ingestion	endocrine system blood liver	Some positive data exist, but the data are not sufficient for classification		NOEL 300 mg/kg/day	
4-Hydroxy-4-methylpentan-2-one	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 100 mg/kg/day	
Ethylbenzene	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for		NOAEL 1.1 mg/l	

3M Scotchkote Epoxy Primer MC 135, White (Part A)

			classification			
Ethylbenzene	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.3 mg/l	
Ethylbenzene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.32 mg/l	
Ethylbenzene	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.6 mg/l	
Ethylbenzene	Inhalation	heart	All data are negative		NOAEL 3.2 mg/l	
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair	All data are negative		NOAEL 4.2 mg/l	
Ethylbenzene	Inhalation	immune system	All data are negative		NOAEL 3.2 mg/l	
Ethylbenzene	Inhalation	muscles	All data are negative		NOAEL 4.2 mg/l	
Ethylbenzene	Inhalation	respiratory system	All data are negative		NOAEL 3.2 mg/l	
Ethylbenzene	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 136 mg/kg/day	
Ethylbenzene	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 136 mg/kg	
Synthetic amorphous silica, fumed, crystalline free	Inhalation	respiratory system silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure		NOAEL N/A	

Aspiration Hazard

Name	Value
Non-hazardous ingredients	Not an aspiration hazard
Bisphenol A diglycidyl ether - bisphenol A copolymer	Not an aspiration hazard
Titanium dioxide	Not an aspiration hazard
Talc	Not an aspiration hazard
Butan-1-ol	Some positive data exist, but the data are not sufficient for classification
Xylene	Aspiration hazard
Mica-Group Minerals	Not an aspiration hazard
1,2,4-Trimethylbenzene	Aspiration hazard
Solvent naphtha (petroleum), light aromatic	Aspiration hazard
4-Hydroxy-4-methylpentan-2-one	Not an aspiration hazard

3M Scotchkote Epoxy Primer MC 135, White (Part A)

Ethylbenzene	Aspiration hazard
Synthetic amorphous silica, fumed, crystalline free	Not an aspiration hazard
Quartz	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

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

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

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

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 uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerised) material in a permitted industrial waste facility. 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.

3M Scotchkote Epoxy Primer MC 135, White (Part A)

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-2001-0550-4, GR-2001-3392-8

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.

GR-2001-0552-0, GR-2001-3390-2

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

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

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

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
Ethylbenzene	100-41-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Quartz	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Talc	14807-96-6	Gr. 3: Not classifiable	International Agency for Research on Cancer
Titanium dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Xylene	1330-20-7	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status

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

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

3M Scotchkote Epoxy Primer MC 135, White (Part A)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

List of relevant R-phrases

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
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.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53	Toxic 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: Respiratory protection - recommended respirators information was modified.

Risk phrase was modified.

Section 2: Symbol was modified.

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

Section 2: Indication of danger information 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.

Lactation 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.

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

Section 11: UN GHS Classification table heading was deleted.

Section 11: Lactation table - UN GHS Classification heading 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

3M Scotchkote Epoxy Primer MC 135, White (Part A)

(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