



Safety Data Sheet

Copyright, 2012, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group:	28-3626-0	Version number:	1.06
Revision date:	13/07/2012	Supersedes date:	08/03/2012
Transportation version number:	2.01 (29/07/2011)		

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

Product identification numbers

GR-2000-9950-9

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

Identified uses

Coating.

1.3. Details of the supplier of the substance or mixture

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

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

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

Indication of danger

Highly flammable.

Harmful.

Sensitising

2.2. Label elements

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

Symbols

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

F Highly flammable.
Xn Harmful.

Contains:

Bisphenol A diglycidyl ether - bisphenol A copolymer; 4-Methylpentan-2-one; Xylene

Risk phrases

R11 Highly flammable.
R20 Harmful by inhalation.
R36/38 Irritating to eyes 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.
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.

Special provisions concerning the labelling of certain substances

Contains epoxy resins. See information supplied by manufacturer.

Notes on labelling

Nota P applied to CAS #64742-82-1.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-hazardous ingredients	Mixture		30 - 40	
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)
Xylene	1330-20-7	EINECS 215-535-7	10 - 20	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)
Talc	14807-96-6	EINECS 238-877-9	5 - 15	
4-Methylpentan-2-one	108-10-1	EINECS 203-550-1	1 - 10	F:R11; Xn:R20; Xi:R36-37; R66 (EU) Flam. Liq. 2, H225; Acute Tox.

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

				4, H332; Eye Irrit. 2, H319; STOT SE 3, H335; EUH066 (CLP)
Butanone	78-93-3	EINECS 201-159-0	1 - 10	F:R11; Xi:R36; R66; R67 (EU) Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066 (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)
Synthetic amorphous silica, fumed, crystalline free	112945-52-5		< 1	
Ethanol	64-17-5	EINECS 200-578-6	< 1	F:R11 (EU) Flam. Liq. 2, H225 (CLP)
Naphtha (petroleum), hydrodesulphurised heavy	64742-82-1	EINECS 265-185-4	< 1	Xn:R65 - Nota 4,P (EU) R10 (Vendor) N:R51/53; R66; R67 (Self Classified) Asp. Tox. 1, H304 - Nota P (CLP) Flam. Liq. 3, H226 (Vendor) STOT SE 3, H336; EUH066; Aquatic Chronic 2, H411 (Self Classified)
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

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.

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

<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. 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

Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. 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. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Keep away from heat/sparks/open

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Wear low static or properly grounded shoes. Use explosion-proof electrical/ventilating/lighting/equipment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required. 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. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from oxidising agents. Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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
4-Methylpentan-2-one	108-10-1	Health and Safety Comm. (UK)	TWA:208 mg/m ³ (50 ppm);STEL:416 mg/m ³ (100 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	
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
Talc	14807-96-6	Health and Safety Comm. (UK)	TWA(as respirable dust):1 mg/m ³	
Silica, crystalline (airborne particles of respirable size)	14808-60-7	Health and Safety Comm. (UK)	TWA(respirable):0.1 mg/m ³	
Ethanol	64-17-5	Health and Safety Comm. (UK)	TWA:1920 mg/m ³ (1000 ppm)	
Butanone	78-93-3	Health and Safety Comm. (UK)	TWA: 600 mg/m ³ (200 ppm); STEL: 899 mg/m ³ (300 ppm)	Skin Notation

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

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

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

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

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: Polymer laminate

The following protective clothing material(s) are recommended: 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
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Pungent solvent odour; Black colour.
pH	<i>Not applicable.</i>
Boiling point/boiling range	≥ 80 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Flammable Liquid: Category 2.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	7 °C [<i>Test Method</i> :Closed Cup]
Autoignition temperature	≥ 370 °C
Flammable Limits(LEL)	1 % volume
Flammable Limits(UEL)	11.5 % volume
Vapour pressure	$\leq 1,333.2$ Pa
Relative density	1.390 [<i>Ref Std</i> :WATER=1]
Water solubility	Negligible
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	1.39 g/ml

9.2. Other information

Volatile organic compounds (VOC) 435 g/l [*Test Method*:Estimated] [*Details*:EU Definition (Part A)]

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

Volatile organic compounds (VOC)	and B mix]) 473 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :EU Definition (Part A and B mix-10% thinned)]
Percent volatile	29.57 % weight

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

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

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

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

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.

Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

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
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
Talc	Ingestion		LD50 Not available
Butanone	Dermal	Rabbit	LD50 8,001 mg/l
Butanone	Inhalation-Vapor (4 hours)	Rat	LC50 35 mg/kg
Butanone	Ingestion	Rat	LD50 2,737 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
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

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

Ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethanol	Inhalation-Vapor (4 hours)	Rat	LC50 125 mg/l
Ethanol	Ingestion	Rat	LD50 17,800 mg/kg
Naphtha (petroleum), hydrodesulphurised heavy	Dermal	Rabbit	LD50 > 3,000 mg/kg
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation-Vapor (4 hours)	Rat	LC50 estimated to be 20 - 50 mg/l
Naphtha (petroleum), hydrodesulphurised heavy	Ingestion	Rat	LD50 > 5,000 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
Xylene		Mild irritant
Talc	Rabbit	No significant irritation
Butanone		Minimal irritation
4-Methylpentan-2-one	Rabbit	Mild irritant
Ethylbenzene		Mild irritant
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation
Ethanol	Rabbit	No significant irritation
Naphtha (petroleum), hydrodesulphurised heavy		Mild irritant
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
Xylene		Mild irritant
Talc	Rabbit	No significant irritation
Butanone		Moderate irritant
4-Methylpentan-2-one	Rabbit	Mild irritant
Ethylbenzene		Moderate irritant
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation
Ethanol	Rabbit	Moderate irritant
Naphtha (petroleum), hydrodesulphurised heavy		Mild irritant
Quartz		No data available

Skin Sensitisation

Name	Species	Value
Non-hazardous ingredients		No data available
Bisphenol A diglycidyl ether - bisphenol A copolymer		Sensitising
Xylene		No data available
Talc		No data available
Butanone		No data available
4-Methylpentan-2-one	Guinea pig	Not sensitizing
Ethylbenzene		Not sensitizing
Synthetic amorphous silica, fumed, crystalline free	Human and animal	Not sensitizing
Ethanol	Human	Some positive data exist, but the data are not sufficient for classification
Naphtha (petroleum), hydrodesulphurised heavy		Not sensitizing
Quartz		No data available

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)**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
Xylene		No data available
Talc	Human	Not sensitizing
Butanone		No data available
4-Methylpentan-2-one		No data available
Ethylbenzene		No data available
Synthetic amorphous silica, fumed, crystalline free		No data available
Ethanol		No data available
Naphtha (petroleum), hydrodesulphurised heavy		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
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Butanone	In Vitro	Not mutagenic
4-Methylpentan-2-one	In Vitro	Not mutagenic
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
Ethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethanol	In vivo	Some positive data exist, but the data are not sufficient for classification
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	Not mutagenic
Naphtha (petroleum), hydrodesulphurised heavy	In Vitro	Some positive data exist, but the data are not sufficient for classification
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
Xylene	Dermal		Not carcinogenic
Xylene	Ingestion		Not carcinogenic
Xylene	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
Butanone	Inhalation		Not carcinogenic
4-Methylpentan-2-one	Inhalation	Multiple animal species	Carcinogenic.
Ethylbenzene	Inhalation		Carcinogenic.
Synthetic amorphous silica, fumed, crystalline free	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Ethanol	Ingestion	Multiple animal	Some positive data exist, but the data

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

		species	are not sufficient for classification
Naphtha (petroleum), hydrodesulphurised heavy	Dermal		Some positive data exist, but the data are not sufficient for classification
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation		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
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	
Talc	Ingestion	Not toxic to development	Rat	NOAEL 1,600 mg/kg	during organogenesis
Butanone	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOAEL 8.8 mg/l	
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

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

4-Methylpentan-2-one	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Mouse	NOAEL 12.3 mg/l	during organogenesis
Ethylbenzene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 0.43 mg/l	
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
Ethanol	Inhalation	Not toxic to development	Rat	NOAEL 38 mg/l	during gestation
Ethanol	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5,200 mg/kg/day	prematuring & during gestation
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	Not toxic to reproduction and/or development		NOAEL 2.356 mg/l	
Quartz		No data available			

Lactation

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			
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		NOEL N/A	

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

			classification			
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	
Talc			No data available			
Butanone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Butanone	Inhalation	central nervous system depression	Some positive data exist, but the data are not sufficient for classification		LOAEL 29 mg/l	
Butanone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOAEL 1,500 mg/kg/day	
Butanone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOAEL 1,080 mg/kg	
4-Methylpentan-2-one	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL 10 mg/m ³	
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
4-Methylpentan-2-one	Ingestion	central nervous system depression	May cause drowsiness or dizziness		LOAEL 900 mg/kg/day	
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			No data available			

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

silica, fumed, crystalline free						
Ethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 2.6 mg/l	30 minutes
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL not available	
Ethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 3,000 mg/kg	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		NOEL 6.5 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 2.4 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	heart	All data are negative		NOAEL 2.5 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	liver kidney and/or bladder	All data are negative		NOAEL 0.610 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	muscles	All data are negative		NOAEL 0.61 mg/l	
Quartz	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Non-hazardous			No data available			

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

ingredients						
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
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 though 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	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
Xylene	Ingestion	auditory system	Some positive data exist, but the data are not sufficient for classification		LOEL 900 mg/kg/day	
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	

3M Scotchkote Epoxy Coating EA9 HB, Black (Part 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
Butanone	Dermal	nervous system	All data are negative		NOAEL 2	
Butanone	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOAEL 14.7 mg/l	
Butanone	Inhalation	heart endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system muscles	All data are negative		NOAEL 14.7 mg/l	
Butanone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOAEL 1,500 mg/kg/day	
Butanone	Ingestion	nervous system	All data are negative		NOAEL 173 mg/kg/day	
4-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	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	13 weeks

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

		bladder				
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
Ethylbenzene	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOAEL 1.1 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	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	bone, teeth, nails, and/or hair muscles	All data are negative		NOAEL 4.2 mg/l	
Ethylbenzene	Inhalation	heart immune system 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
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethanol	Inhalation	hematopoietic system immune system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 25 mg/l	14 days
Ethanol	Ingestion	liver	Some positive data exist, but the data are not	Rat	LOAEL 8,000 mg/kg/day	4 months

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

			sufficient for classification			
Ethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 3,000 mg/kg/day	7 days
Naphtha (petroleum), hydrodesulphurised heavy	Dermal	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 691 mg/kg	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 4.580 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.619 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	endocrine system muscles	Some positive data exist, but the data are not sufficient for classification		LOEL 0.616 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 0.57 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	bone, teeth, nails, and/or hair blood liver	All data are negative		NOAEL 5.62 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	heart	All data are negative		NOAEL 1.271 mg/l	
Naphtha (petroleum), hydrodesulphurised heavy	Inhalation	immune system	All data are negative		NOAEL 0.616 mg/l	
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
Xylene	Aspiration hazard
Talc	Not an aspiration hazard
Butanone	Not an aspiration hazard
4-Methylpentan-2-one	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	Aspiration hazard
Synthetic amorphous silica, fumed, crystalline free	Not an aspiration hazard
Ethanol	Not an aspiration hazard

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

Naphtha (petroleum), hydrodesulphurised heavy	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:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No component test data available.

Material	Organism	Type	Exposure	Test endpoint	Test result
3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)		Insufficient to classify			

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities. Incinerate in a permitted waste incineration

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

GR-2000-9950-9

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

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

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

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
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
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
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.
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.

3M Scotchkote Epoxy Coating EA9 HB, Black (Part A)

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.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
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.

Safety phrase was modified.

Section 8: Respiratory protection - recommended respirators was modified.

Section 1: Product identification numbers was modified.

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

Aspiration Hazard Table was modified.

Section 11: Acute Toxicity table was modified.

Carcinogenicity Table was modified.

Serious Eye Damage/Irritation Table was modified.

Germ Cell Mutagenicity Table was modified.

Skin Sensitisation Table was modified.

Respiratory Sensitisation Table was modified.

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.

Section 5: Fire - Extinguishing media information was modified.

Section 6: Accidental release personal information was modified.

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

Section 13: Standard Phrase Category Waste GHS was modified.

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

Section 8: Respiratory protection - recommended respirators guide was added.

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 (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