



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

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

1.1. Product identifier

3M™ Scotch-Weld™ Acrylic Adhesive 8910NS, Black Part B

Product Identification Numbers

62-2875-8531-9

7100314557

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

Identified uses

Product , Structural adhesive.

1.3. Details of the supplier of the safety data sheet

Address:	3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone:	+44 (0)1344 858 000
E Mail:	ner-productstewardship@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

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226
 Acute Toxicity, Category 4 - Acute Tox. 4; H312
 Skin Corrosion/ Irritation, Category 1A - Skin Corr. 1A; H314
 Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
 Skin Sensitization, Category 1 - Skin Sens. 1; H317
 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335
 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

SIGNAL WORD

DANGER.

Symbols

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

Pictograms



Ingredient	Identifier(s)	EC No.	% by Wt
methyl methacrylate	80-62-6	201-297-1	9 - 30
methacrylic acid	79-41-4	201-204-4	0.1 - 23
dodecyl methacrylate	142-90-5	205-570-6	< 11
2-hydroxyethyl methacrylate	868-77-9	212-782-2	0.1 - 10
Phosphorus-containing methacrylate monomer	1627542-04-4		<= 5
mequinol	150-76-5	205-769-8	< 0.5
2,3-epoxypropyl methacrylate	106-91-2	203-441-9	< 0.1

HAZARD STATEMENTS:

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260A	Do not breathe vapours.
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 or
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P305 + P351 + P338

shower.

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.

32% of the mixture consists of components of unknown acute oral toxicity.

32% of the mixture consists of components of unknown acute dermal toxicity.

Contains 42% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

None known.

This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB
methyl methacrylate	(CAS-No.) 80-62-6 (EC-No.) 201-297-1	9 - 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Nota D
Proprietary polymer	Trade Secret	14 - 27	Substance not classified as hazardous
methacrylic acid	(CAS-No.) 79-41-4 (EC-No.) 201-204-4	0.1 - 23	Acute Tox. 3, H311 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Nota D Acute Tox. 4, H332
Mica-group minerals	(CAS-No.) 12001-26-2	0.1 - 20	Substance with a national occupational exposure limit
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	(CAS-No.) 7534-94-3 (EC-No.) 231-403-1	0.1 - 20	Aquatic Chronic 3, H412
Acrylonitrile-Butadiene Polymers	(CAS-No.) 9003-18-3 (EC-No.) 618-357-1	<= 15	Substance not classified as hazardous
dodecyl methacrylate	(CAS-No.) 142-90-5 (EC-No.) 205-570-6	< 11	STOT SE 3, H335
Polyethylene	(CAS-No.) 9002-88-4 (EC-No.) 680-352-5	<= 10	Substance with a national occupational exposure limit
2-hydroxyethyl methacrylate	(CAS-No.) 868-77-9 (EC-No.) 212-782-2	0.1 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319

			Skin Sens. 1, H317 Nota D
Fillers-II	Trade Secret	<= 10	Substance with a national occupational exposure limit
Phosphorus-containing methacrylate monomer	(CAS-No.) 1627542-04-4	<= 5	Eye Dam. 1, H318 Skin Sens. 1, H317
MYRISTYL METHACRYLATE	(CAS-No.) 2549-53-3 (EC-No.) 219-835-9	< 5	Substance not classified as hazardous
Acrylic copolymer	Trade Secret	<= 5	Substance not classified as hazardous
HEXADECYL METHACRYLATE	(CAS-No.) 2495-27-4 (EC-No.) 219-672-3	<= 1.5	Substance not classified as hazardous
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	< 1	Substance with a national occupational exposure limit
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	(CAS-No.) 26741-53-7 (EC-No.) 247-952-5	< 0.5	Aquatic Chronic 1, H410,M=1
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	(CAS-No.) 68610-51-5 (EC-No.) 271-867-2	< 0.5	Aquatic Chronic 4, H413 Repr. 2, H361d
naphthenic acids, copper salts	(CAS-No.) 1338-02-9 (EC-No.) 215-657-0	< 0.5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=1
mequinol	(CAS-No.) 150-76-5 (EC-No.) 205-769-8	< 0.5	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2,3-epoxypropyl methacrylate	(CAS-No.) 106-91-2 (EC-No.) 203-441-9	< 0.1	Acute Tox. 3, H311 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Muta. 2, H341 Carc. 1B, H350 Repr. 1B, H360F STOT SE 3, H335 STOT RE 1, H372 Nota D Skin Sens. 1A, H317
1,4-dihydroxybenzene	(CAS-No.) 123-31-9 (EC-No.) 204-617-8	< 0.1	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=1

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
dodecyl methacrylate	(CAS-No.) 142-90-5 (EC-No.) 205-570-6	(C >= 10%) STOT SE 3, H335
methacrylic acid	(CAS-No.) 79-41-4 (EC-No.) 201-204-4	(C >= 10%) Skin Corr. 1A, H314 (1% <= C < 10%) Skin Irrit. 2, H315 (C >= 1%) STOT SE 3, H335

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

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

The most important symptoms and effects based on the GB CLP classification include:

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Allergic skin reaction (redness, swelling, blistering, and itching). Harmful in contact with skin. Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

Substance

Carbon monoxide
Carbon dioxide.
Hydrogen Chloride
Oxides of nitrogen.

Condition

During combustion.
During combustion.
During combustion.
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. When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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. 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 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/occupational use only. Not for consumer sale or use. 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. 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. 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 vapour accumulation. 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 cool. Keep container tightly closed. 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	Identifier(s)	Agency	Limit type	Additional comments
Mica-group minerals	12001-26-2	UK HSE	TWA(respirable):0.8 mg/m ³ ;TWA(Inhalable):10 mg/m ³	
1,4-dihydroxybenzene	123-31-9	UK HSE	TWA: 0.5 mg/m ³	
Carbon black	1333-86-4	UK HSE	TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³	
methacrylic acid	79-41-4	UK HSE	TWA:72 mg/m ³ (20 ppm);STEL:143 mg/m ³ (40 ppm)	
methyl methacrylate	80-62-6	UK HSE	TWA:208 mg/m ³ (50 ppm);STEL:416 mg/m ³ (100 ppm)	
Dust, inhalable dust	9002-88-4	UK HSE	TWA(as respirable dust):4 mg/m ³ ;TWA(as inhalable dust):10 mg/m ³	
Fillers-II	Trade Secret	UK HSE	TWA(as respirable dust):2.4 mg/m ³ ;TWA(as inhalable dust):6 mg/m ³	

UK HSE : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

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.

Applicable Norms/Standards

Use eye/face protection conforming to EN 16321

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 dexterity.

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

Material	Thickness (mm)	Breakthrough Time
Polymer laminate	No data available	No data available

Applicable Norms/Standards

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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 supplied-air respirator

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

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136

Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid.
Specific Physical Form:	Paste
Colour	Black
Odor	Strong Acrylic
Odour threshold	No data available.
Melting point/freezing point	Not applicable.
Boiling point/boiling range	No boiling point
Flammability	Flammable liquid: Category 3.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Flash point	≥47.8 °C [Test Method: Closed Cup]
Autoignition temperature	No data available.
Decomposition temperature	No data available.
pH	substance/mixture is non-soluble (in water)
Kinematic Viscosity	69,811 mm ² /sec
Water solubility	Nil
Solubility- non-water	No data available.

Partition coefficient: n-octanol/water	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Density	1.066 g/ml
Relative density	1.066 [Ref Std: WATER=1]
Relative Vapour Density	<i>No data available.</i>
Particle Characteristics	<i>Not applicable.</i>

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Molecular weight	<i>Not applicable.</i>
Percent volatile	<i>No data available.</i>

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>
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None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the 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 hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

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. May cause additional health effects (see below).

Skin contact

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

May be harmful if swallowed.

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.

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Olfactory effects: Signs/symptoms may include decreased ability to detect odours and complete loss of smell.

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 ATE >1,000 - =2,000 mg/kg
Overall product	Inhalation-Vapour(4 hr)		No data available; calculated ATE >20 - =50 mg/l
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
methyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
methyl methacrylate	Inhalation-Vapour (4 hours)	Rat	LC50 29.8 mg/l
methyl methacrylate	Ingestion	Rat	LD50 7,900 mg/kg
methacrylic acid	Dermal	Rabbit	LD50 > 500 mg/kg
methacrylic acid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 7.1 mg/l
methacrylic acid	Ingestion	Rat	LD50 1,320 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
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Dermal	Rabbit	LD50 > 3,000 mg/kg
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	Rat	LD50 3,100 mg/kg
Acrylonitrile-Butadiene Polymers	Dermal	Rabbit	LD50 > 15,000 mg/kg
Acrylonitrile-Butadiene Polymers	Ingestion	Rat	LD50 > 30,000 mg/kg
dodecyl methacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
dodecyl methacrylate	Dermal	similar compounds	LD50 > 3,000 mg/kg
Fillers-II	Dermal	Rabbit	LD50 > 5,000 mg/kg

Fillers-II	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Fillers-II	Ingestion	Rat	LD50 > 5,110 mg/kg
2-hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
Polyethylene	Dermal		LD50 estimated to be > 5,000 mg/kg
Phosphorus-containing methacrylate monomer	Ingestion	Rat	LD50 > 2,000 mg/kg
Polyethylene	Ingestion	Rat	LD50 > 2,000 mg/kg
Phosphorus-containing methacrylate monomer	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg
MYRISTYL METHACRYLATE	Dermal	Rabbit	LD50 > 3,000 mg/kg
MYRISTYL METHACRYLATE	Ingestion	Rat	LD50 > 5,000 mg/kg
HEXADECYL METHACRYLATE	Dermal	Rabbit	LD50 > 3,000 mg/kg
HEXADECYL METHACRYLATE	Ingestion	Rat	LD50 > 5,000 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg
naphthenic acids, copper salts	Dermal	similar compounds	LD50 > 2,000 mg/kg
naphthenic acids, copper salts	Ingestion	similar compounds	LD50 > 300, < 2,000 mg/kg
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Dermal	Rabbit	LD50 > 2,000 mg/kg
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Ingestion	Rat	LD50 > 5,000 mg/kg
mequinol	Dermal	Rat	LD50 > 2,000 mg/kg
mequinol	Ingestion	Rat	LD50 1,630 mg/kg
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	Dermal	Rat	LD50 > 2,000 mg/kg
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	Ingestion	Rat	LD50 > 5,000 mg/kg
2,3-epoxypropyl methacrylate	Dermal	Rabbit	LD50 480 mg/kg
2,3-epoxypropyl methacrylate	Ingestion	Rat	LD50 597 mg/kg
1,4-dihydroxybenzene	Dermal	Rat	LD50 > 4,800 mg/kg
1,4-dihydroxybenzene	Ingestion	Rat	LD50 302 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
methyl methacrylate	Rabbit	Irritant
methacrylic acid	Rabbit	Corrosive
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Acrylonitrile-Butadiene Polymers	Professional judgement	No significant irritation
dodecyl methacrylate	similar compounds	Minimal irritation
Fillers-II	Rabbit	No significant irritation
2-hydroxyethyl methacrylate	Rabbit	Minimal irritation
Phosphorus-containing methacrylate monomer	Professional judgement	No significant irritation
Polyethylene	Professional judgement	No significant irritation
MYRISTYL METHACRYLATE	Rabbit	Minimal irritation
HEXADECYL METHACRYLATE	Rabbit	Minimal irritation

Carbon black	Rabbit	No significant irritation
naphthenic acids, copper salts	Rabbit	No significant irritation
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Rabbit	No significant irritation
mequinol	Rabbit	Mild irritant
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	Rabbit	No significant irritation
2,3-epoxypropyl methacrylate	Rabbit	Corrosive
1,4-dihydroxybenzene	Human and animal	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
methyl methacrylate	Rabbit	Mild irritant
methacrylic acid	Rabbit	Corrosive
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Acrylonitrile-Butadiene Polymers	Professional judgement	No significant irritation
dodecyl methacrylate	similar compounds	No significant irritation
Fillers-II	Rabbit	No significant irritation
2-hydroxyethyl methacrylate	Rabbit	Moderate irritant
Phosphorus-containing methacrylate monomer	Professional judgement	Corrosive
MYRISTYL METHACRYLATE	Rabbit	No significant irritation
HEXADECYL METHACRYLATE	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation
naphthenic acids, copper salts	In vitro data	No significant irritation
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Rabbit	Mild irritant
mequinol	Rabbit	Severe irritant
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	Rabbit	No significant irritation
2,3-epoxypropyl methacrylate	Rabbit	Corrosive
1,4-dihydroxybenzene	Human	Corrosive

Skin Sensitisation

Name	Species	Value
methyl methacrylate	Human and animal	Sensitising
methacrylic acid	Guinea pig	Not classified
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Guinea pig	Not classified
dodecyl methacrylate	Guinea pig	Not classified
Fillers-II	Human and animal	Not classified
2-hydroxyethyl methacrylate	Human and animal	Sensitising
Phosphorus-containing methacrylate monomer	Professional judgement	Sensitising

	t	
MYRISTYL METHACRYLATE	Professional judgement	Some positive data exist, but the data are not sufficient for classification
HEXADECYL METHACRYLATE	Mouse	Some positive data exist, but the data are not sufficient for classification
naphthenic acids, copper salts	Guinea pig	Not classified
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Guinea pig	Not classified
mequinol	Guinea pig	Sensitising
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	Guinea pig	Not classified
2,3-epoxypropyl methacrylate	Human and animal	Sensitising
1,4-dihydroxybenzene	Guinea pig	Sensitising

Respiratory Sensitisation

Name	Species	Value
methyl methacrylate	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
methyl methacrylate	In vivo	Not mutagenic
methyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
methacrylic acid	In Vitro	Not mutagenic
methacrylic acid	In vivo	Not mutagenic
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	In Vitro	Not mutagenic
dodecyl methacrylate	In Vitro	Not mutagenic
dodecyl methacrylate	In vivo	Not mutagenic
Fillers-II	In Vitro	Not mutagenic
2-hydroxyethyl methacrylate	In vivo	Not mutagenic
2-hydroxyethyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Phosphorus-containing methacrylate monomer	In Vitro	Not mutagenic
MYRISTYL METHACRYLATE	In Vitro	Not mutagenic
Carbon black	In Vitro	Not mutagenic
Carbon black	In vivo	Some positive data exist, but the data are not sufficient for classification
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	In Vitro	Not mutagenic
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	In vivo	Not mutagenic
mequinol	In vivo	Not mutagenic
mequinol	In Vitro	Some positive data exist, but the data are not sufficient for classification
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	In Vitro	Not mutagenic
2,3-epoxypropyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
2,3-epoxypropyl methacrylate	In vivo	Mutagenic
1,4-dihydroxybenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,4-dihydroxybenzene	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
methyl methacrylate	Ingestion	Rat	Not carcinogenic
methyl methacrylate	Inhalation	Human and animal	Not carcinogenic
Fillers-II	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Polyethylene	Not specified.	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.
mequinol	Dermal	Multiple animal species	Not carcinogenic
mequinol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
2,3-epoxypropyl methacrylate	Ingestion	similar compounds	Carcinogenic.
2,3-epoxypropyl methacrylate	Inhalation	Multiple animal species	Carcinogenic.
1,4-dihydroxybenzene	Dermal	Mouse	Not carcinogenic
1,4-dihydroxybenzene	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
methyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
methyl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
methyl methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 450 mg/kg/day	during gestation
methyl methacrylate	Inhalation	Not classified for development	Rat	NOAEL 8.3 mg/l	during organogenesis
methacrylic acid	Inhalation	Not classified for development	Rat	NOAEL 1.076 mg/l	during gestation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	4 weeks
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating into lactation
dodecyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
dodecyl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	6 weeks
dodecyl methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Fillers-II	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Fillers-II	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Fillers-II	Ingestion	Not classified for development	Rat	NOAEL 1,350	during organogenesis

				mg/kg/day	
2-hydroxyethyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
2-hydroxyethyl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
2-hydroxyethyl methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 ppm in the diet	1 generation
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 ppm in the diet	1 generation
mequinol	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	premating into lactation
mequinol	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	28 days
mequinol	Ingestion	Not classified for development	Rat	NOAEL 200 mg/kg/day	during gestation
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	Ingestion	Not classified for development	Rabbit	NOAEL 15 mg/kg/day	during gestation
2,3-epoxypropyl methacrylate	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	premating into lactation
2,3-epoxypropyl methacrylate	Inhalation	Not classified for development	Rabbit	NOAEL 0.058 mg/l	during gestation
2,3-epoxypropyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 30 mg/kg/day	premating into lactation
2,3-epoxypropyl methacrylate	Ingestion	Toxic to male reproduction	Rat	NOAEL 30 mg/kg/day	45 days
1,4-dihydroxybenzene	Ingestion	Not classified for female reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
1,4-dihydroxybenzene	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
1,4-dihydroxybenzene	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
methyl methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
methacrylic acid	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not available	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
dodecyl methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
Phosphorus-containing methacrylate monomer	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
MYRISTYL METHACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL not available	

mequinol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2,3-epoxypropyl methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL not available	
1,4-dihydroxybenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
1,4-dihydroxybenzene	Ingestion	nervous system	May cause damage to organs	Rat	NOAEL Not available	not applicable
1,4-dihydroxybenzene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg	not applicable

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
methyl methacrylate	Dermal	peripheral nervous system	Not classified	Human	NOAEL Not available	occupational exposure
methyl methacrylate	Inhalation	olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
methyl methacrylate	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	14 weeks
methyl methacrylate	Inhalation	liver	Not classified	Mouse	NOAEL 12.3 mg/l	14 weeks
methyl methacrylate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
methyl methacrylate	Ingestion	kidney and/or bladder heart skin endocrine system gastrointestinal tract hematopoietic system liver muscles nervous system respiratory system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
methacrylic acid	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.352 mg/l	90 days
methacrylic acid	Inhalation	blood nervous system eyes kidney and/or bladder	Not classified	Rat	NOAEL 1.232 mg/l	90 days
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 150 mg/kg/day	90 days
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	endocrine system hematopoietic system kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
Mica-group minerals	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
dodecyl methacrylate	Ingestion	hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	6 weeks
Fillers-II	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Carbon black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	Ingestion	hematopoietic system heart skin endocrine system gastrointestinal tract liver immune system muscles nervous system	Not classified	Rat	NOAEL 78 mg/kg/day	90 days

		eyes kidney and/or bladder respiratory system vascular system				
mequinol	Ingestion	gastrointestinal tract	Not classified	Rat	LOAEL 300 mg/kg/day	28 days
mequinol	Ingestion	liver immune system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
mequinol	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 300 mg/kg/day	28 days
mequinol	Ingestion	heart endocrine system hematopoietic system nervous system respiratory system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	Ingestion	endocrine system blood liver eyes	Not classified	Rat	NOAEL 289 mg/kg/day	90 days
2,3-epoxypropyl methacrylate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rabbit	NOAEL 0.012 mg/l	13 days
2,3-epoxypropyl methacrylate	Ingestion	endocrine system kidney and/or bladder	Not classified	Rat	NOAEL 100 mg/kg/day	45 days
2,3-epoxypropyl methacrylate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 10 mg/kg/day	45 days
1,4-dihydroxybenzene	Ingestion	blood	Not classified	Rat	NOAEL Not available	40 days
1,4-dihydroxybenzene	Ingestion	bone marrow liver	Not classified	Rat	NOAEL Not available	9 weeks
1,4-dihydroxybenzene	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 50 mg/kg/day	15 months
1,4-dihydroxybenzene	Ocular	eyes	Not classified	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

For the component/components, either no data is currently available or the data is not sufficient for classification.

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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the 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	Identifier(s)	Organism	Type	Exposure	Test endpoint	Test result
methyl methacrylate	80-62-6	Green algae	Experimental	72 hours	EC50	>110 mg/l
methyl methacrylate	80-62-6	Rainbow trout	Experimental	96 hours	LC50	>79 mg/l

3M™ Scotch-Weld™ Acrylic Adhesive 8910NS, Black Part B

methyl methacrylate	80-62-6	Water flea	Experimental	48 hours	EC50	69 mg/l
methyl methacrylate	80-62-6	Green algae	Experimental	72 hours	NOEC	110 mg/l
methyl methacrylate	80-62-6	Water flea	Experimental	21 days	NOEC	37 mg/l
methyl methacrylate	80-62-6	Activated sludge	Experimental	30 minutes	EC20	150 mg/l
methyl methacrylate	80-62-6	Soil microbes	Experimental	28 days	NOEC	>1,000 mg/kg (Dry Weight)
methacrylic acid	79-41-4	Bacteria	Experimental	17 hours	EC50	270 mg/l
methacrylic acid	79-41-4	Green algae	Experimental	72 hours	EC50	45 mg/l
methacrylic acid	79-41-4	Water flea	Experimental	48 hours	EC50	>130 mg/l
methacrylic acid	79-41-4	Green algae	Experimental	72 hours	NOEC	8.2 mg/l
methacrylic acid	79-41-4	Water flea	Experimental	21 days	NOEC	53 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Green algae	Experimental	72 hours	EC50	2.3 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Water flea	Experimental	48 hours	EC50	1.1 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Zebra Fish	Experimental	96 hours	LC50	1.8 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Green algae	Experimental	72 hours	EC10	0.751 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Water flea	Experimental	21 days	NOEC	0.233 mg/l
Mica-group minerals	12001-26-2	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymers	9003-18-3	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
dodecyl methacrylate	142-90-5	Zebra Fish	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100
dodecyl methacrylate	142-90-5	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100
dodecyl methacrylate	142-90-5	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100
dodecyl methacrylate	142-90-5	Water flea	Experimental	21 days	No tox obs at lmt of water sol	>100
dodecyl methacrylate	142-90-5	Activated sludge	Analogous Compound	3 hours	EC50	>10,000
2-hydroxyethyl methacrylate	868-77-9	Turbot	Analogous Compound	96 hours	LC50	833 mg/l
2-hydroxyethyl methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
2-hydroxyethyl methacrylate	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
2-hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
2-hydroxyethyl methacrylate	868-77-9	Green algae	Experimental	72 hours	NOEC	160 mg/l
2-hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l

3M™ Scotch-Weld™ Acrylic Adhesive 8910NS, Black Part B

2-hydroxyethyl methacrylate	868-77-9	N/A	Experimental	16 hours	EC0	>3,000 mg/l
2-hydroxyethyl methacrylate	868-77-9	N/A	Experimental	18 hours	LD50	<98 mg per kg of bodyweight
Fillers-II	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Polyethylene	9002-88-4	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
MYRISTYL METHACRYLATE	2549-53-3	Activated sludge	Estimated	3 hours	EC50	>10,000 mg/l
MYRISTYL METHACRYLATE	2549-53-3	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
MYRISTYL METHACRYLATE	2549-53-3	Zebra Fish	Estimated	96 hours	No tox obs at lmt of water sol	>100 mg/l
MYRISTYL METHACRYLATE	2549-53-3	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
MYRISTYL METHACRYLATE	2549-53-3	Water flea	Estimated	21 days	No tox obs at lmt of water sol	>100 mg/l
Phosphorus-containing methacrylate monomer	1627542-04-4	Common Carp	Experimental	96 hours	LC50	>100 mg/l
Phosphorus-containing methacrylate monomer	1627542-04-4	Green algae	Experimental	72 hours	EC50	90 mg/l
Phosphorus-containing methacrylate monomer	1627542-04-4	Water flea	Experimental	48 hours	EC50	>100 mg/l
HEXADECYL METHACRYLATE	2495-27-4	Activated sludge	Estimated	3 hours	EC10	>10,000 mg/l
HEXADECYL METHACRYLATE	2495-27-4	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
HEXADECYL METHACRYLATE	2495-27-4	Zebra Fish	Estimated	96 hours	No tox obs at lmt of water sol	>100 mg/l
HEXADECYL METHACRYLATE	2495-27-4	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
HEXADECYL METHACRYLATE	2495-27-4	Water flea	Estimated	21 days	No tox obs at lmt of water sol	>100 mg/l
Carbon black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon black	1333-86-4	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Carbon black	1333-86-4	Activated sludge	Experimental	3 hours	NOEC	>800 mg/l
mequinol	150-76-5	Ciliated protozoa	Experimental	40 hours	IC50	171.4 mg/l
mequinol	150-76-5	Green algae	Experimental	72 hours	ErC50	54.7 mg/l
mequinol	150-76-5	Rainbow trout	Experimental	96 hours	LC50	28.5 mg/l
mequinol	150-76-5	Water flea	Experimental	48 hours	EC50	2.2 mg/l

3M™ Scotch-Weld™ Acrylic Adhesive 8910NS, Black Part B

mequinol	150-76-5	Green algae	Experimental	72 hours	NOEC	2.96 mg/l
mequinol	150-76-5	Water flea	Experimental	21 days	NOEC	0.68 mg/l
naphthenic acids, copper salts	1338-02-9	Green algae	Estimated	72 hours	ErC50	0.629 mg/l
naphthenic acids, copper salts	1338-02-9	Water flea	Estimated	48 hours	EC50	0.0756 mg/l
naphthenic acids, copper salts	1338-02-9	Zebra Fish	Estimated	96 hours	LC50	0.07 mg/l
naphthenic acids, copper salts	1338-02-9	Fathead minnow	Estimated	32 days	EC10	0.0354 mg/l
naphthenic acids, copper salts	1338-02-9	Green algae	Estimated	N/A	NOEC	0.132 mg/l
naphthenic acids, copper salts	1338-02-9	Sediment Worm	Estimated	28 days	NOEC	110 mg/kg (Dry Weight)
naphthenic acids, copper salts	1338-02-9	Water flea	Estimated	7 days	NOEC	0.02 mg/l
naphthenic acids, copper salts	1338-02-9	Activated sludge	Estimated	N/A	EC50	42 mg/l
naphthenic acids, copper salts	1338-02-9	Barley	Estimated	4 days	NOEC	96 mg/kg (Dry Weight)
naphthenic acids, copper salts	1338-02-9	Redworm	Estimated	56 days	NOEC	60 mg/kg (Dry Weight)
naphthenic acids, copper salts	1338-02-9	Soil microbes	Estimated	4 days	NOEC	72 mg/kg (Dry Weight)
naphthenic acids, copper salts	1338-02-9	Springtail	Estimated	28 days	NOEC	167 mg/kg (Dry Weight)
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA DIENE AND ISOBUTYLENE	68610-51-5	Bacteria	Experimental	17 hours	NOEC	150.9 mg/l
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA DIENE AND ISOBUTYLENE	68610-51-5	Green algae	Experimental	72 hours	EC50	>100 mg/l
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA DIENE AND ISOBUTYLENE	68610-51-5	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA DIENE AND ISOBUTYLENE	68610-51-5	Water flea	Experimental	48 hours	EC50	>100 mg/l
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA DIENE AND ISOBUTYLENE	68610-51-5	Fathead minnow	Experimental	34 days	NOEL	100 mg/l
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA	68610-51-5	Green algae	Experimental	72 hours	NOEC	100 mg/l

DIENE AND ISOBUTYLENE						
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA DIENE AND ISOBUTYLENE	68610-51-5	Water flea	Experimental	21 days	EC10	<1 mg/l
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	26741-53-7	Green algae	Experimental	72 hours	ErC50	97 mg/l
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	26741-53-7	Zebra Fish	Experimental	96 hours	LC50	70.7 mg/l
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	26741-53-7	Green algae	Experimental	72 hours	ErC10	15.4 mg/l
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	26741-53-7	Water flea	Experimental	21 days	NOEC	0.1 mg/l
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	26741-53-7	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER	26741-53-7	Redworm	Experimental	14 days	LC50	>1,000 mg/kg (Dry Weight)
2,3-epoxypropyl methacrylate	106-91-2	Green algae	Experimental	72 hours	EC50	9.2 mg/l
2,3-epoxypropyl methacrylate	106-91-2	Medaka	Experimental	96 hours	LC50	2.8 mg/l
2,3-epoxypropyl methacrylate	106-91-2	Water flea	Experimental	48 hours	EC50	24.9 mg/l
2,3-epoxypropyl methacrylate	106-91-2	Green algae	Experimental	72 hours	NOEC	2.4 mg/l
2,3-epoxypropyl methacrylate	106-91-2	Water flea	Experimental	21 days	NOEC	1.02 mg/l
1,4-dihydroxybenzene	123-31-9	Activated sludge	Experimental	2 hours	IC50	71 mg/l
1,4-dihydroxybenzene	123-31-9	Green algae	Experimental	72 hours	ErC50	0.053 mg/l
1,4-dihydroxybenzene	123-31-9	Rainbow trout	Experimental	96 hours	LC50	0.044 mg/l

1,4-dihydroxybenzene	123-31-9	Water flea	Experimental	48 hours	EC50	0.061 mg/l
1,4-dihydroxybenzene	123-31-9	Fathead minnow	Experimental	32 days	NOEC	>=0.066 mg/l
1,4-dihydroxybenzene	123-31-9	Green algae	Experimental	72 hours	NOEC	0.0015 mg/l
1,4-dihydroxybenzene	123-31-9	Water flea	Experimental	21 days	NOEC	0.0029 mg/l

12.2. Persistence and degradability

Material	Identifier(s)	Test type	Duration	Study Type	Test result	Protocol
methyl methacrylate	80-62-6	Experimental Biodegradation	14 days	BOD	94 %BOD/ThOD	OECD 301C - MITI test (I)
methacrylic acid	79-41-4	Experimental Biodegradation	28 days	BOD	86 %BOD/ThOD	OECD 301D - Closed bottle test
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Experimental Biodegradation	28 days	CO2 evolution	70 %CO2 evolution/THCO2 evolution	OECD 310 CO2 Headspace
Mica-group minerals	12001-26-2	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymers	9003-18-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
dodecyl methacrylate	142-90-5	Experimental Biodegradation	28 days	BOD	88.5 %BOD/ThOD	OECD 301C - MITI test (I)
2-hydroxyethyl methacrylate	868-77-9	Experimental Biodegradation	28 days	BOD	84 %BOD/COD	OECD 301D - Closed bottle test
2-hydroxyethyl methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life basic pH	10.9 days (t 1/2)	OECD 111 Hydrolysis func of pH
Fillers-II	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Polyethylene	9002-88-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
MYRISTYL METHACRYLATE	2549-53-3	Estimated Biodegradation	28 days	BOD	88.5 %BOD/ThOD	
Phosphorus-containing methacrylate monomer	1627542-04-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
HEXADECYL METHACRYLATE	2495-27-4	Estimated Biodegradation	28 days	BOD	87 %BOD/ThOD	OECD 301C - MITI test (I)
Carbon black	1333-86-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
mequinol	150-76-5	Experimental Biodegradation - Anaerobic	28 days	Percent degraded	>90 %degraded	
mequinol	150-76-5	Experimental Biodegradation	28 days	BOD	86 %BOD/ThOD	OECD 301C - MITI test (I)
naphthenic acids, copper salts	1338-02-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE	68610-51-5	Experimental Biodegradation	28 days	CO2 evolution	1 % weight	OECD 301B - Modified sturm or CO2
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4-DI-TERT-BUTYLPHENYL)	26741-53-7	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2

ESTER						
2,3-epoxypropyl methacrylate	106-91-2	Experimental Biodegradation	28 days	BOD	94 %BOD/ThOD	OECD 301C - MITI test (I)
2,3-epoxypropyl methacrylate	106-91-2	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	3.66 days (t 1/2)	OECD 111 Hydrolysis func of pH
1,4-dihydroxybenzene	123-31-9	Experimental Biodegradation	14 days	BOD	70 %BOD/ThOD	OECD 301C - MITI test (I)

12.3 : Bioaccumulative potential

Material	Identifier(s)	Test type	Duration	Study Type	Test result	Protocol
methy methacrylate	80-62-6	Experimental Bioconcentration		Log Kow	1.38	OECD 107 log Kow shke flsk mtd
methacrylic acid	79-41-4	Experimental Bioconcentration		Log Kow	0.93	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Modeled Bioconcentration		Bioaccumulation factor	39	Catalogic™
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Experimental Bioconcentration		Log Kow	5.09	OECD 117 log Kow HPLC method
Mica-group minerals	12001-26-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylonitrile-Butadiene Polymers	9003-18-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
dodecyl methacrylate	142-90-5	Analogous Compound BCF - Other	56 hours	Bioaccumulation factor	37	OECD305-Bioconcentration
dodecyl methacrylate	142-90-5	Analogous Compound Bioconcentration		Log Kow	7.08	OECD 117 log Kow HPLC method
2-hydroxyethyl methacrylate	868-77-9	Experimental Bioconcentration		Log Kow	0.42	OECD 107 log Kow shke flsk mtd
Fillers-II	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene	9002-88-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
MYRISTYL METHACRYLATE	2549-53-3	Estimated BCF - Other	56 hours	Bioaccumulation factor	37	OECD305-Bioconcentration
Phosphorus-containing methacrylate monomer	1627542-04-4	Experimental Bioconcentration		Log Kow	3.7	
HEXADECYL METHACRYLATE	2495-27-4	Estimated BCF - Other	56 hours	Bioaccumulation factor	37	OECD305-Bioconcentration
Carbon black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
mequinol	150-76-5	Experimental Bioconcentration		Log Kow	1.58	
naphthenic acids, copper salts	1338-02-9	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	≤27	OECD305-Bioconcentration
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND	68610-51-5	Modeled Bioconcentration		Bioaccumulation factor	≤55	Catalogic™

ISOBUTYLENE						
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4- DI-TERT- BUTYLPHENYL) ESTER	26741-53-7	Modeled Bioconcentration		Log Kow	11	Episuite™
2,3-epoxypropyl methacrylate	106-91-2	Experimental Bioconcentration		Log Kow	0.96	OECD 107 log Kow shke flsk mtd
1,4- dihydroxybenzene	123-31-9	Experimental Bioconcentration		Log Kow	0.59	

12.4. Mobility in soil

Material	Identifier(s)	Test type	Study Type	Test result	Protocol
methyl methacrylate	80-62-6	Experimental Mobility in Soil	Koc	8.7-72 l/kg	
Exo-1,7,7- trimethylbicyclo[2.2 .1]hept-2-yl methacrylate	7534-94-3	Experimental Mobility in Soil	Koc	5,130 l/kg	OECD 121 Estim. of Koc by HPLC
dodecyl methacrylate	142-90-5	Analogous Compound Mobility in Soil	Koc	2040-51000 l/kg	OECD 106 Adsp-Desb Batch Equil
2-hydroxyethyl methacrylate	868-77-9	Experimental Mobility in Soil	Koc	42.7 l/kg	
Phosphorus- containing methacrylate monomer	1627542-04-4	Experimental Mobility in Soil	Koc	135 l/kg	
mequinol	150-76-5	Experimental Mobility in Soil	Koc	55.7 l/kg	
P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTA DIENE AND ISOBUTYLENE	68610-51-5	Experimental Mobility in Soil	Koc	>427000 l/kg	OECD 121 Estim. of Koc by HPLC
PHOSPHOROUS ACID, CYCLIC NEOPENTANETE TRAYL BIS(2,4- DI-TERT- BUTYLPHENYL) ESTER	26741-53-7	Modeled Mobility in Soil	Koc	10,000,000,000 l/kg	Episuite™
2,3-epoxypropyl methacrylate	106-91-2	Modeled Mobility in Soil	Koc	20 l/kg	Episuite™
1,4- dihydroxybenzene	123-31-9	Modeled Mobility in Soil	Koc	40 l/kg	Episuite™

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Other adverse effects

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Incinerate uncured product in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances
20 01 27* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 - UN Number or ID number	UN2920	UN2920	UN2920
14.2 UN proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(METHACRYLIC ACID; METHYL METHACRYLATE)	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(METHACRYLIC ACID; METHYL METHACRYLATE)	CORROSIVE LIQUID, FLAMMABLE, N.O.S.(METHACRYLIC ACID; METHYL METHACRYLATE; HEPTANE, BRANCHED, CYCLIC, AND LINEAR)
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	II	II	II
14.5 Environmental hazards	Environmentally Hazardous	Not applicable.	Marine Pollutant
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.

ADR Classification Code	CF1	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>Identifier(s)</u>	<u>Classification</u>	<u>Regulation</u>
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain, UK Mandatory Classification and Labelling list
2,3-epoxypropyl methacrylate	106-91-2	Carc. 1B	
2,3-epoxypropyl methacrylate	106-91-2	Grp. 2A: Probable human carc.	International Agency for Research on Cancer The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain, UK Mandatory Classification and Labelling list
1,4-dihydroxybenzene	123-31-9	Carc. 2	
1,4-dihydroxybenzene	123-31-9	Gr. 3: Not classifiable	International Agency for Research on Cancer The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain, UK Mandatory Classification and Labelling list
methyl methacrylate	80-62-6	Gr. 3: Not classifiable	
Polyethylene	9002-88-4	Gr. 3: Not classifiable	

Restrictions on the manufacture, placing on the market and use:

Global inventory status

Contact 3M for more information.

COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

Hazard Categories	Qualifying quantity (tonnes) for the application of
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	Lower-tier requirements	Upper-tier requirements
P5c FLAMMABLE LIQUIDS*	5000	50000

*If maintained at a temperature above its boiling point or if particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, P5a or P5b FLAMMABLE LIQUIDS may apply
Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012, as amended for GB

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended for GB.

SECTION 16: Other information
List of relevant H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

List of Relevant Notas

Nota D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.
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Revision information:

Section 14 - Not Hazardous for Transportation information was modified.

EU Section 14 - Table Data information was added.

EU Section 14 - Table Data information was modified.

EU Section 14 - Table Headers information was added.
GB Section 02: CLP Ingredient table information was modified.
GB Section 04: First Aid - Symptoms and Effects (GB CLP) information was modified.
GB Section 15: Carcinogenicity information information was modified.
GBSDS Section 14 Transport in bulk - Main Heading information was deleted.
GBSDS Section 14 UN Number information was deleted.
Label: Graphic information was modified.
OEL Reg Agency Desc information was modified.
Section 02: Label Elements: GB Percent Unknown information was modified.
Section 08: Personal Protection - Apron Statement information was added.
Section 1: E-mail address information was modified.
Section 1: Product use information information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Ingestion information information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12: Bioaccumulative potential information information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.
Section 14 Classification Code – Main Heading information was deleted.
Section 14 Classification Code – Regulation Data information was deleted.
Section 14 Control Temperature – Main Heading information was deleted.
Section 14 Control Temperature – Regulation Data information was deleted.
Section 14 Emergency Temperature – Main Heading information was deleted.
Section 14 Emergency Temperature – Regulation Data information was deleted.
Section 14 Hazard Class + Sub Risk – Main Heading information was deleted.
Section 14 Hazard Class + Sub Risk – Regulation Data information was deleted.
Section 14 Other Dangerous Goods – Main Heading information was deleted.
Section 14 Other Dangerous Goods – Regulation Data information was deleted.
Section 14 Packing Group – Main Heading information was deleted.
Section 14 Packing Group – Regulation Data information was deleted.
Section 14 Proper Shipping Name information was deleted.
Section 14 Regulations – Main Headings information was deleted.
Section 14 Segregation – Regulation Data information was deleted.
Section 14 Segregation Code – Main Heading information was deleted.
Section 14 Special Precautions – Main Heading information was deleted.
Section 14 Special Precautions – Regulation Data information was deleted.
Section 14 Transport in bulk – Regulation Data information was deleted.
Section 14 UN Number Column data information was deleted.
Section 15: Seveso Substance Text information was deleted.
Section 16: Two-column table displaying the unique list of Notas for all components of the given material. information was added.
Section 3: Composition/ Information of ingredients table information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Conditions safe storage information was modified.
Section 8: glove data value information was deleted.
Section 8: glove data value information was modified.
Section 8: Occupational exposure limit table information was modified.

Section 8: Personal Protection - Skin/body information information was deleted.

Section 8: Respiratory protection - recommended respirators information information was modified.

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

Section 9: Vapour pressure value information was added.

Section 9: Vapour pressure value information was deleted.

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

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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M SDSs for Great Britain are available at www.3M.com/uk

For Northern Ireland documents, please contact your 3M representative to obtain a copy.