

Safety Data Sheet

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 08-6267-2
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 22/04/2016

Transportation version number: 1.00 (26/10/2010)

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

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

3M Scotch-WeldTM Low Odour Acrylic Adhesive DP810 Tan

Product Identification Numbers

FS-9100-2836-4 FS-9100-3219-2 FS-9100-4055-9

7000079923 7000080093 7000079966

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

Identified uses

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:
 tox.uk@mmm.com

 Website:
 www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

08-6252-4, 08-6239-1

TRANSPORTATION INFORMATION

FS-9100-2836-4. FS-9100-3219-2. FS-9100-4055-9

Not hazardous for transportation

KIT LABEL

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315 Skin Sensitization, Category 1 - Skin Sens. 1; H317 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373 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

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols:

GHS05 (Corrosion) | GHS07 (Exclamation mark) | GHS08 (Health Hazard) |

Pictograms



HAZARD STATEMENTS:

H318 Causes serious eye damage. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure:

nervous system | respiratory system |

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P260A Do not breathe vapours.

P280B Wear protective gloves and eye/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

3M Scotch-Weld™ Low Odour Acrylic Adhesive DP810 Tan

P501 Dispose of contents/container in accordance with applicable local/regional/national/international

regulations.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

<=125 ml Precautionary statements

Prevention:

P280B Wear protective gloves and eye/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

Revision information:

Section 01: SAP Material Numbers information was added.



Safety Data Sheet

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 22/04/2016

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

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

1.1. Product identifier

3M Scotch-Weld™ Low Odour Acrylic Adhesive DP810 Tan and Low Odour Acrylic Adhesive 810 Tan, Part B

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

Identified uses

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:** tox.uk@mmm.com **Website:** www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Skin Sensitization, Category 1 - Skin Sens. 1; H317

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

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols:

GHS05 (Corrosion) | GHS07 (Exclamation mark) |

Pictograms





Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
2-Hydroxyethyl methacrylate	868-77-9	212-782-2	10 - 30
Methacrylic acid, monoester with propane-1,2-diol	27813-02-1	248-666-3	10 - 30
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	52628-03-2	258-053-2	< 4
Mequinol	150-76-5	205-769-8	< 1

HAZARD STATEMENTS:

H318 Causes serious eye damage. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P280B Wear protective gloves and eye/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international

regulations.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

<=125 ml Precautionary statements

Prevention:

P280B Wear protective gloves and eye/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Contains 35% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EC No.	REACH Registration No.	% by Wt	Classification
2-Phenoxyethyl methacrylate	10595-06-9	234-201-1		10 - 40	Substance not classified as hazardous
Methacrylic acid, monoester with propane-1,2-diol	27813-02-1	248-666-3		10 - 30	Eye Irrit. 2, H319; Skin Sens. 1, H317
2-Hydroxyethyl methacrylate	868-77-9	212-782-2		10 - 30	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 - Nota D
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	9010-81-5			5 - 20	Substance not classified as hazardous
Bisphenol A dimethacrylate, ethoxylated	41637-38-1			5 - 20	Aquatic Chronic 4, H413
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	52628-03-2	258-053-2		< 4	Substance not classified as hazardous
Phenothiazine	92-84-2	202-196-5		< 1	Aquatic Acute 1, H400,M=1; Aquatic Chronic 1, H410,M=1 Acute Tox. 4, H302; Skin Sens. 1B, H317; STOT RE 2, H373
Mequinol	150-76-5	205-769-8		< 1	Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 3, H412

Please see section 16 for the full text of any H statements referred to in this section

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

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. If you feel unwell, get medical attention.

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam 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

SubstanceConditionCarbon monoxide.During combustion.Carbon dioxide.During combustion.Oxides of nitrogen.During combustion.Toxic vapour, gas, particulate.During combustion.

5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed 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. Avoid breathing 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. Keep away from reactive metals (eg. Aluminium, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. 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

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

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.

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 166

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:

MaterialThickness (mm)Breakthrough TimePolymer laminateNo data availableNo data available

Applicable Norms/Standards
Use gloves tested to EN 374

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

Applicable Norms/Standards

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 stateLiquid.Specific Physical Form:Paste

Appearance/Odourslight fragrance, greenOdour thresholdNo data available.pHNot applicable.Boiling point/boiling range> 93 °C

Melting point
Not applicable.
Flammability (solid, gas)
Not applicable.
Explosive properties
Not classified
Oxidising properties
Not classified

Flash point > 93.3 °C [Test Method:Closed Cup]

Autoignition temperatureNo data available.Flammable Limits(LEL)No data available.Flammable Limits(UEL)No data available.

Vapour pressure <=13.3 Pa

Relative density 1.07 [*Ref Std*:WATER=1] Water solubility Slight (less than 10%) Solubility- non-water No data available. Partition coefficient: n-octanol/water No data available. **Evaporation rate** No data available. Vapour density No data available. **Decomposition temperature** No data available. Viscosity 20,000 mPa-s **Density** 1.07 g/ml

9.2. Other information

EU Volatile Organic Compounds

No data available.

No data available.

No data available.

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 may occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5 Incompatible materials

Amines.

Reducing agents.

Reactive metals

10.6 Hazardous decomposition products

Substance

Condition

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 EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact

Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain. 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 irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

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 >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
2-Phenoxyethyl methacrylate	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
2-Phenoxyethyl methacrylate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
2-Hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-Hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Methacrylic acid, monoester with propane-1,2-diol	Dermal	Rabbit	LD50 > 5,000 mg/kg
Methacrylic acid, monoester with propane-1,2-diol	Ingestion	Rat	LD50 > 2,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Ingestion	Rat	LD50 > 2,000 mg/kg
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	Ingestion	Rat	LD50 > 2,000 mg/kg
Mequinol	Dermal	Rat	LD50 > 2,000 mg/kg
Mequinol	Ingestion	Rat	LD50 1,600 mg/kg
Phenothiazine	Dermal	Rat	LD50 > 2,000 mg/kg
Phenothiazine	Ingestion	Rat	LD50 1,370 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2-Phenoxyethyl methacrylate	similar	Irritant
	compoun	
	ds	
2-Hydroxyethyl methacrylate	Rabbit	Minimal irritation
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Professio	No significant irritation
	nal	
	judgemen	
	t	
Methacrylic acid, monoester with propane-1,2-diol	Rabbit	Minimal irritation
Mequinol	Rabbit	Mild irritant
Phenothiazine	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
2-Phenoxyethyl methacrylate	similar	Severe irritant
	compoun	
	ds	
2-Hydroxyethyl methacrylate	Rabbit	Moderate irritant
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Professio	No significant irritation
	nal	
	judgemen	
	t	
Methacrylic acid, monoester with propane-1,2-diol	Rabbit	Moderate irritant
Mequinol	Rabbit	Severe irritant
Phenothiazine	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
2-Hydroxyethyl methacrylate	Human	Sensitising

D ... 0 . C . 14

	and animal	
Methacrylic acid, monoester with propane-1,2-diol	Human	Sensitising
	and	
	animal	
Bisphenol A dimethacrylate, ethoxylated	Guinea	Not classified
	pig	
Mequinol	Guinea	Sensitising
	pig	
Phenothiazine	Guinea	Sensitising
	pig	

Photosensitisation

Name	Species	Value
Phenothiazine	Human	Sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Germ Cen Mutagementy				
Name	Route	Value		
2-Phenoxyethyl methacrylate	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		
Methacrylic acid, monoester with propane-1,2-diol	In vivo	Not mutagenic		
Methacrylic acid, monoester with propane-1,2-diol	In Vitro	Some positive data exist, but the data are not		
		sufficient for classification		
Bisphenol A dimethacrylate, ethoxylated	In Vitro	Not mutagenic		
Phenothiazine	In Vitro	Not mutagenic		
Phenothiazine	In vivo	Not mutagenic		

Carcinogenicity

Name	Route	Species	Value
Methacrylic acid, monoester with propane-1,2-diol	Inhalation	Multiple	Not carcinogenic
		animal	
		species	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
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
Methacrylic acid, monoester with propane- 1,2-diol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Methacrylic acid, monoester with propane- 1,2-diol	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
Methacrylic acid, monoester with propane- 1,2-diol	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
Phenothiazine	Ingestion	Not classified for development	Rat	NOAEL 150	during

	mg/kg/day	organogenesis
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Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Methacrylic acid, monoester with propane-	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	similar health	NOAEL Not available	
1,2-diol			classification	hazards		

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Methacrylic acid, monoester with propane- 1,2-diol	Inhalation	blood	Not classified	Rat	NOAEL 0.5 mg/l	21 days
Methacrylic acid, monoester with propane- 1,2-diol	Ingestion	hematopoietic system heart endocrine system liver immune system nervous system kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Phenothiazine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Dog	NOAEL 18 mg/kg/day	13 weeks
Phenothiazine	Ingestion	heart endocrine system liver kidney and/or bladder respiratory system	Not classified	Dog	NOAEL 67 mg/kg/day	13 weeks

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.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS Nbr	Organism	Туре	Exposure	Test endpoint	Test result
2-Phenoxyethyl methacrylate	10595-06-9		Data not available or insufficient for classification			
2-Hydroxyethyl methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 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	EC50	710 mg/l
2-Hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l

2-Hydroxyethyl	868-77-9	Green Algae	Experimental	72 hours	NOEC	160 mg/l
methacrylate	000 77 9	Green ringue	Ехрегинента	/2 Hours	l'ioze	100 mg/
Methacrylic acid,	27813-02-1	Green Algae	Estimated	72 hours	EC50	710 mg/l
monoester with	2,015 02 1	Green ringue	25tmated	72 110415	2000	, 10 mg 1
propane-1,2-diol						
Methacrylic acid,	27813-02-1	Water flea	Estimated	48 hours	EC50	380 mg/l
monoester with						
propane-1,2-diol						
Methacrylic acid,	27813-02-1	Fathead minnow	Estimated	96 hours	LC50	227 mg/l
monoester with	2,015 02 1	T unious minio	25tmated) o 110 a15	2000	227
propane-1,2-diol						
Methacrylic acid,	27813-02-1	Water flea	Estimated	21 days	NOEC	24.1 mg/l
monoester with	27013 02 1	Tracer frea	Estimated	21 days	TOLE	21.11119/1
propane-1,2-diol						
Methacrylic acid,	27813-02-1	Green Algae	Estimated	72 hours	NOEC	160 mg/l
monoester with	2/813-02-1	Green Aigae	Estimated	/2 Hours	NOEC	100 mg/1
propane-1,2-diol						
Acrylonitrile - 1,3-	9010-81-5		Data not available			
butadiene - methacrylic	9010-81-5		or insufficient for			
acid copolymer	41.627.20.1	G 1	classification	72.1	EG50	100 /
Bisphenol A	41637-38-1	Green algae	Endpoint not	72 hours	EC50	>100 mg/l
dimethacrylate,			reached			
ethoxylated						
Bisphenol A	41637-38-1	Green algae	Experimental	72 hours	NOEC	0.05 mg/l
dimethacrylate,						
ethoxylated						
2-Propenoic acid, 2-	52628-03-2		Data not available			
methyl-, 2-			or insufficient for			
hydroxyethyl ester,			classification			
phosphate						
Mequinol	150-76-5	Green Algae	Experimental	72 hours	EC50	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
1			r · · · · · ·			
Mequinol	150-76-5	Water flea	Experimental	21 days	NOEC	0.68 mg/l
•			1			
Mequinol	150-76-5	Green Algae	Experimental	72 hours	NOEC	2.96 mg/l
1		J	r · · · · · ·			
Phenothiazine	92-84-2	Green Algae	Experimental	72 hours	EC50	>100 mg/l
	[1
Phenothiazine	92-84-2	Water flea	Experimental	48 hours	EC50	0.154 mg/l
					12000	
Phenothiazine	92-84-2	Rainbow trout	Experimental	96 hours	LC50	0.597 mg/l
						,g.1
	1		1	1		

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2-Phenoxyethyl methacrylate	10595-06-9	Estimated Biodegradation	28 days	BOD	70 % weight	OECD 301C - MITI test (I)
2-Hydroxyethyl methacrylate	868-77-9	Experimental Biodegradation	14 days	BOD	95 % weight	OECD 301C - MITI test (I)
Methacrylic acid, monoester with propane-1,2-diol	27813-02-1	Estimated Biodegradation	28 days	BOD	81 % weight	OECD 301C - MITI test (I)
Acrylonitrile - 1,3- butadiene - methacrylic acid copolymer	9010-81-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Bisphenol A dimethacrylate, ethoxylated	41637-38-1	Estimated Biodegradation	28 days	CO2 evolution	7-12 % weight	OECD 301B - Modified sturm or CO2
2-Propenoic acid, 2- methyl-, 2-hydroxyethyl ester, phosphate	52628-03-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Mequinol	150-76-5	Experimental Biodegradation	28 days	BOD	86 % BOD/ThBOD	OECD 301C - MITI test (I)
Phenothiazine	92-84-2	Experimental	28 days	BOD	0 %	OECD 301D - Closed bottle

Biodegradation	BOD/ThBOD test
----------------	----------------

12.3: Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2-Phenoxyethyl methacrylate	10595-06-9	Estimated Bioconcentration		Bioaccumulation factor	5.8	Estimated: Bioconcentration factor
2-Hydroxyethyl methacrylate	868-77-9	Experimental Bioconcentration		Log Kow	0.47	Other methods
Methacrylic acid, monoester with propane- 1,2-diol	27813-02-1	Estimated Bioconcentration		Log Kow	0.97	Other methods
Acrylonitrile - 1,3- butadiene - methacrylic acid copolymer	9010-81-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Bisphenol A dimethacrylate, ethoxylated	41637-38-1	Estimated Bioconcentration		Bioaccumulation factor	6.6	Estimated: Bioconcentration factor
2-Propenoic acid, 2- methyl-, 2-hydroxyethyl ester, phosphate	52628-03-2	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	Other methods
Phenothiazine	92-84-2	Experimental BCF- Carp	56 days	Bioaccumulation factor	660	

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

See Section 11.1 Information on toxicological effects

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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

ADR: Not restricted for transport. IMDG: Not restricted for transport. IATA: Not restricted for transport.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause 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.

Revision information:

Section 2: <125ml Hazard - Environmental information was added.

Section 2: <125ml Hazard - Health information was added.

Section 2: <125ml Precautionary - Prevention information was added.

Section 2: <125ml Precautionary - Response information was added.

CLP: Ingredient table information was modified.

Label: CLP Classification information was modified.

Label: CLP Environmental Hazard Statements information was added.

Label: CLP Percent Unknown information was modified.

Label: CLP Precautionary - Disposal information was added.

Label: CLP Precautionary - Prevention information was modified. Label: CLP Precautionary - Response information was modified.

Label: Graphic information was modified.

Label: Signal Word information was modified.

Section 3: Composition/Information of ingredients table information was added.

Section 3: Composition/Information of ingredients table information was deleted.

Section 4: First aid for eye contact information information was modified.

Section 6: Accidental release environmental information information was modified.

Section 7: Precautions safe handling information information was modified.

- Section 8: Appropriate Engineering controls information information was modified.
- Section 8: Eye/face protection information information was modified.
- Section 8: glove data value information was modified.
- Section 8: Personal Protection Respiratory Information information was added.
- Section 8: Personal Protection Skin/hand information information was modified.
- Section 8: Respiratory protection recommended respirators guide information was added.
- Section 8: Respiratory protection recommended respirators information information was added.
- Section 8: Respiratory protection information information was deleted.
- Section 9: Property description for optional properties information was modified.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Carcinogenicity Table information was added.
- Section 11: Carcinogenicity text information was deleted.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: Health Effects Eye information information was modified.
- Section 11: Health Effects Inhalation information information was modified.
- Photosensitisation Table information was added.
- 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: Specific Target Organ Toxicity repeated exposure text information was deleted.
- Section 11: Specific Target Organ Toxicity single exposure text information was deleted.
- Section 11: Target Organs Repeated Table information was added.
- Section 11: Target Organs Single Table information was added.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.
- Section 13: Standard Phrase Category Waste GHS information was modified.
- Section 15: Regulations Inventories information was modified.

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

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



Safety Data Sheet

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Transportation version number: 1.00 (26/10/2010)

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 Scotch-Weld™ Low Odour Acrylic Adhesive DP810 Tan and Low Odour Acrylic Adhesive 810 Tan, Part A

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

Identified uses

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:** tox.uk@mmm.com **Website:** www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315 Skin Sensitization, Category 1 - Skin Sens. 1; H317 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373

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

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols:

GHS05 (Corrosion) | GHS07 (Exclamation mark) | GHS08 (Health Hazard) |





Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
2-Hydroxyethyl methacrylate	868-77-9	212-782-2	10 - 30
Hydroxypropyl Methacrylate	27813-02-1	248-666-3	10 - 30
α,α-Dimethylbenzyl hydroperoxide	80-15-9	201-254-7	1 - 5

HAZARD STATEMENTS:

H318 Causes serious eye damage. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure: nervous system |

respiratory system |

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P260A Do not breathe vapours.

P280B Wear protective gloves and eye/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international

regulations.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

<=125 ml Precautionary statements

Prevention:

P280B Wear protective gloves and eye/face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Contains 32% of components with unknown hazards to the aquatic environment.

Notes on labelling

H242 not applied because material does not meet available oxygen content from organic peroxides and hydrogen peroxide content requirements for classification.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EC No.	REACH	% by V	Vt	Classification
			Registration No.			
2-Phenoxyethyl methacrylate	10595-06-9	234-201-1		10 -	40	Substance not classified as hazardous
Hydroxypropyl Methacrylate	27813-02-1	248-666-3		10 -	30	Eye Irrit. 2, H319; Skin Sens. 1, H317
2-Hydroxyethyl methacrylate	868-77-9	212-782-2		10 -	30	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 - Nota D
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	9010-81-5			5 - 1	20	Substance not classified as hazardous
Bisphenol A dimethacrylate, ethoxylated	41637-38-1			5 - 1	20	Aquatic Chronic 4, H413
α,α-Dimethylbenzyl hydroperoxide	80-15-9	201-254-7		1- :	5	Org. Perox. EF, H242; Acute Tox. 2, H330; Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Corr. 1B, H314; STOT SE 3, H335; STOT RE 1, H372; Aquatic Chronic 2, H411
Cumene	98-82-8	202-704-5		< 1		Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335; Aquatic Chronic 2, H411 - Nota C
2,2'-Methylenebis[6-tert-butyl-p-cresol]	119-47-1	204-327-1		< 1		Repr. 2, H361f; Aquatic Chronic 2, H411

Please see section 16 for the full text of any H statements referred to in this section

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

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. If you feel unwell, get medical attention.

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam 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

SubstanceConditionCarbon monoxide.During combustion.Carbon dioxide.During combustion.Oxides of nitrogen.During combustion.Toxic vapour, gas, particulate.During combustion.

5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed 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 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. Keep away from reactive metals (eg. Aluminium, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from amines.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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

Ingredient CAS Nbr Agency Limit type Additional comments

Cumene 98-82-8 UK HSC TWA:125 mg/m³(25 SKIN ppm);STEL:250 mg/m³(50

ppm)

UK HSC: 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.

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 166

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.

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

MaterialThickness (mm)Breakthrough TimeButyl rubber.No data availableNo data availableFluoroelastomerNo data availableNo data available

Applicable Norms/Standards Use gloves tested to EN 374

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

Applicable Norms/Standards

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

Appearance/Odourwhite, low odourOdour thresholdNo data available.pHNot applicable.Boiling point/boiling range>=102.8 °CMelting pointNot applicable.

Melting pointNot applicable.Flammability (solid, gas)Not applicable.Explosive propertiesNot classifiedOxidising propertiesNot classified

Flash point 102.2 °C [Test Method:Closed Cup]

Autoignition temperatureNo data available.Flammable Limits(LEL)No data available.Flammable Limits(UEL)No data available.

Vapour pressure <=13.3 Pa

Relative density 1.07 [*Ref Std*:WATER=1]

Water solubility
Solubility- non-water
No data available.
Evaporation rate
No data available.
Vapour density
Not applicable.
Decomposition temperature
Viscosity
Density
Slight (less than 10%)
No data available.
No data available.
20,000 mPa-s
1.07 g/ml

9.2. Other information

EU Volatile Organic Compounds

No data available.

No data available.

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 may occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5 Incompatible materials

Amines.

Reducing agents.

Reactive metals

10.6 Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

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 EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

May be harmful in contact with skin. Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain. 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 irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

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. Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE2,000 - 5,000 mg/kg
Overall product	Inhalation- Vapour(4 hr)		No data available; calculated ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
2-Phenoxyethyl methacrylate	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
2-Phenoxyethyl methacrylate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
2-Hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-Hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Hydroxypropyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydroxypropyl Methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Ingestion	Rat	LD50 > 2,000 mg/kg
α,α-Dimethylbenzyl hydroperoxide	Dermal	Rat	LD50 500 mg/kg
α,α-Dimethylbenzyl hydroperoxide	Inhalation-	Rat	LC50 1.4 mg/l

	Vapour (4		
	hours)		
α,α-Dimethylbenzyl hydroperoxide	Ingestion	Rat	LD50 382 mg/kg
Cumene	Dermal	Rabbit	LD50 > 3,160 mg/kg
Cumene	Inhalation-	Rat	LC50 39.4 mg/l
	Vapour (4		
	hours)		
Cumene	Ingestion	Rat	LD50 1,400 mg/kg
2,2'-Methylenebis[6-tert-butyl-p-cresol]	Dermal	Rabbit	LD50 > 10,000 mg/kg
2,2'-Methylenebis[6-tert-butyl-p-cresol]	Ingestion	Rat	LD50 > 5,000 mg/kg

 \overline{ATE} = acute toxicity estimate

Skin Corrosion/Irritation

Kili Coll osioli/11 I tatioli						
Name	Species	Value				
	-					
2-Phenoxyethyl methacrylate	similar	Irritant				
	compoun					
	ds					
2-Hydroxyethyl methacrylate	Rabbit	Minimal irritation				
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Professio	No significant irritation				
	nal					
	judgemen					
	t					
Hydroxypropyl Methacrylate	Rabbit	Minimal irritation				
α,α-Dimethylbenzyl hydroperoxide	Rabbit	Corrosive				
Cumene	Rabbit	Minimal irritation				

Serious Eve Damage/Irritation

Name	Species	Value
2-Phenoxyethyl methacrylate	similar	Severe irritant
	compoun ds	
2-Hydroxyethyl methacrylate	Rabbit	Moderate irritant
Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer	Professio nal judgemen t	No significant irritation
Hydroxypropyl Methacrylate	Rabbit	Moderate irritant
α,α-Dimethylbenzyl hydroperoxide	Rabbit	Corrosive
Cumene	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
2-Hydroxyethyl methacrylate	Human	Sensitising
	and	
	animal	
Hydroxypropyl Methacrylate	Human	Sensitising
	and	
	animal	
Bisphenol A dimethacrylate, ethoxylated	Guinea	Not classified
	pig	
Cumene	Guinea	Not classified
	pig	

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
2-Phenoxyethyl methacrylate	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
Hydroxypropyl Methacrylate	In vivo	Not mutagenic
Hydroxypropyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Bisphenol A dimethacrylate, ethoxylated	In Vitro	Not mutagenic
α,α-Dimethylbenzyl hydroperoxide	In vivo	Not mutagenic
α , α -Dimethylbenzyl hydroperoxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Cumene	In Vitro	Not mutagenic
Cumene	In vivo	Not mutagenic

Carcinogenicity

our enrogement,			
Name	Route	Species	Value
Hydroxypropyl Methacrylate	Inhalation	Multiple	Not carcinogenic
		animal	
		species	
Cumene	Inhalation	Multiple	Carcinogenic.
		animal	
		species	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration	
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	
Hydroxypropyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation	
Hydroxypropyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days	
Hydroxypropyl Methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation	
Cumene	Inhalation	Not classified for development	Rabbit	NOAEL 11.3 mg/l	during organogenesis	
2,2'-Methylenebis[6-tert-butyl-p-cresol]	Ingestion	Not classified for female reproduction	Rat	NOAEL 50 mg/kg/day	premating & during gestation	
2,2'-Methylenebis[6-tert-butyl-p-cresol]	Ingestion	Toxic to male reproduction	Rat	NOAEL 12.5 mg/kg/day	50 days	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

opecine rarger Organ	pecine Target Organ Toxicity - single exposure						
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	
Hydroxypropyl Methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available		
α,α-Dimethylbenzyl hydroperoxide	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure	
α,α-Dimethylbenzyl hydroperoxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure	

α,α-Dimethylbenzyl	Ingestion	central nervous	May cause drowsiness or	Professio	NOAEL Not	
hydroperoxide		system depression	dizziness	nal	available	
				judgeme		
				nt		
Cumene	Inhalation	central nervous	May cause drowsiness or	Multiple	NOAEL Not	not available
		system depression	dizziness	animal	available	
				species		
Cumene	Inhalation	respiratory irritation	May cause respiratory irritation	Human	LOAEL 0.2	occupational
					mg/l	exposure
Cumene	Ingestion	central nervous	May cause drowsiness or	Multiple	NOAEL Not	not available
		system depression	dizziness	animal	available	
				species		

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydroxypropyl Methacrylate	Inhalation	blood	Not classified	Rat	NOAEL 0.5 mg/l	21 days
Hydroxypropyl Methacrylate	Ingestion	hematopoietic system heart endocrine system liver immune system nervous system kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
α,α-Dimethylbenzyl hydroperoxide	Inhalation	nervous system respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.2 mg/l	7 days
α,α-Dimethylbenzyl hydroperoxide	Inhalation	heart liver kidney and/or bladder	Not classified	Rat	NOAEL 0.03 mg/l	90 days
Cumene	Inhalation	auditory system endocrine system hematopoietic system liver nervous system eyes	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4.9 mg/l	13 weeks
Cumene	Inhalation	respiratory system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Ingestion	kidney and/or bladder heart endocrine system hematopoietic system liver respiratory system	Not classified	Rat	NOAEL 769 mg/kg/day	6 months

Aspiration Hazard

Name	Value		
Cumene	Aspiration hazard		

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

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS Nbr	Organism	Туре	Exposure	Test endpoint	Test result
2-Phenoxyethyl	10595-06-9		Data not available	1	<u> </u>	
methacrylate	100,000		or insufficient for			
incuracy rate			classification			
2-Hydroxyethyl	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
methacrylate	000 77 7	, , arei iiea	Биретиненци	lo nours	EC30	300 mg i
2-Hydroxyethyl	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
methacrylate	000-77-7	atticad minitow	Experimental	70 Hours	LC30	227 mg/1
2-Hydroxyethyl	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
	000-77-9	Green algae	Experimental	/2 nours	EC30	/10 mg/1
methacrylate	0.60.77.0	G 41	E 1 . 1	72.1	NOEG	1.00 //
2-Hydroxyethyl	868-77-9	Green Algae	Experimental	72 hours	NOEC	160 mg/l
methacrylate		~				
2-Hydroxyethyl	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
methacrylate						
Hydroxypropyl	27813-02-1	Water flea	Estimated	48 hours	EC50	380 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Fathead minnow	Estimated	96 hours	LC50	227 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Green Algae	Estimated	72 hours	EC50	710 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Green Algae	Estimated	72 hours	NOEC	160 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Water flea	Estimated	21 days	NOEC	24.1 mg/l
Methacrylate	2,010 02 1	Trace Trea	Listimated	21 days	1,020	2
Acrylonitrile - 1,3-	9010-81-5		Data not available			
butadiene - methacrylic	1		or insufficient for			
acid copolymer			classification			
Bisphenol A	41637-38-1	Green algae	Endpoint not	72 hours	EC50	>100 mg/l
dimethacrylate,	41037-30-1	Green argae	reached	72 Hours	ECSO	>100 mg/1
ethoxylated			reactied			
Bisphenol A	41637-38-1	Green algae	Experimental	72 hours	NOEC	0.05 mg/l
dimethacrylate,	41037-36-1	Green argae	Experimental	/2 Hours	NOEC	0.03 mg/1
ethoxylated						
	00.15.0	D 1 1	Г ' . 1	0.61	T C/50	2.0 //
α,α-Dimethylbenzyl	80-15-9	Rainbow trout	Experimental	96 hours	LC50	3.9 mg/l
hydroperoxide	00.45.0	777 07	-	241		
α,α-Dimethylbenzyl	80-15-9	Water flea	Experimental	24 hours	EC50	7 mg/l
hydroperoxide						
2,2'-Methylenebis[6-	119-47-1	Water flea	Endpoint not	48 hours	EC50	>100 mg/l
tert-butyl-p-cresol]			reached			
2,2'-Methylenebis[6-	119-47-1	Green Algae	Endpoint not	72 hours	EC50	>100 mg/l
tert-butyl-p-cresol]			reached			
2,2'-Methylenebis[6-	119-47-1	Ricefish	Experimental	96 hours	LC50	>100 mg/l
tert-butyl-p-cresol]						
2,2'-Methylenebis[6-	119-47-1	Green Algae	Experimental	72 hours	NOEC	1.3 mg/l
tert-butyl-p-cresol]						
2,2'-Methylenebis[6-	119-47-1	Water flea	Experimental	21 days	NOEC	0.34 mg/l
tert-butyl-p-cresol]			_			
Cumene	98-82-8	Mysid Shrimp	Experimental	96 hours	EC50	1.3 mg/l
			•			
Cumene	98-82-8	Green algae	Experimental	72 hours	EC50	2.6 mg/l
			T .			
Cumene	98-82-8	Rainbow trout	Experimental	96 hours	LC50	4.8 mg/l
	1 3 5 5	1				
Cumene	98-82-8	Green algae	Experimental	72 hours	NOEC	0.22 mg/l
Cumone	70.02-0	Giccii aigac	Experimental	/ 2 Hours	I OLC	0.22 mg/1
Cumene	98-82-8	Water flea	Experimental	21 days	NOEC	0.35 mg/l
						137. 1.1.111271

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2-Phenoxyethyl methacrylate	10595-06-9	Estimated Biodegradation	28 days	BOD	70 % weight	OECD 301C - MITI test (I)
2-Hydroxyethyl methacrylate	868-77-9	Experimental Biodegradation	14 days	BOD	95 % weight	OECD 301C - MITI test (I)

Hydroxypropyl	27813-02-1	Estimated	28 days	BOD	81 % weight	OECD 301C - MITI test (I)
Methacrylate		Biodegradation				
Acrylonitrile - 1,3-	9010-81-5	Data not available	N/A	N/A	N/A	N/A
butadiene - methacrylic acid		or insufficient for				
copolymer		classification				
Bisphenol A	41637-38-1	Estimated	28 days	CO2 evolution	7-12 % weight	OECD 301B - Modified
dimethacrylate, ethoxylated		Biodegradation				sturm or CO2
α,α-Dimethylbenzyl	80-15-9	Experimental	28 days	BOD	0 % weight	OECD 301C - MITI test (I)
hydroperoxide		Biodegradation				
2,2'-Methylenebis[6-tert-	119-47-1	Experimental	28 days	BOD	0 %	OECD 301C - MITI test (I)
butyl-p-cresol]		Biodegradation			BOD/ThBOD	
Cumene	98-82-8	Experimental		Photolytic half-life	4.5 days (t 1/2)	Other methods
		Photolysis		(in air)		
Cumene	98-82-8	Experimental	14 days	BOD	33 % weight	OECD 301C - MITI test (I)
		Biodegradation				

12.3: Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2-Phenoxyethyl	10595-06-9	Estimated		Bioaccumulation	5.8	Estimated: Bioconcentration
methacrylate		Bioconcentration		factor		factor
2-Hydroxyethyl	868-77-9	Experimental		Log Kow	0.47	Other methods
methacrylate		Bioconcentration				
Hydroxypropyl	27813-02-1	Estimated		Log Kow	0.97	Other methods
Methacrylate		Bioconcentration				
Acrylonitrile - 1,3-	9010-81-5	Data not available	N/A	N/A	N/A	N/A
butadiene - methacrylic		or insufficient for				
acid copolymer		classification				
Bisphenol A	41637-38-1	Estimated		Bioaccumulation	6.6	Estimated: Bioconcentration
dimethacrylate, ethoxylated		Bioconcentration		factor		factor
α,α-Dimethylbenzyl	80-15-9	Estimated		Bioaccumulation	37	Other methods
hydroperoxide		Bioconcentration		factor		
2,2'-Methylenebis[6-tert-	119-47-1	Experimental BCF-	60 days	Bioaccumulation	840	OECD 305E -
butyl-p-cresol]		Carp		factor		Bioaccumulation flow-
						through fish test
Cumene	98-82-8	Estimated		Bioaccumulation	140	Other methods
		Bioconcentration		factor		

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

See Section 11.1 Information on toxicological effects

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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

ADR: Not hazardous for transport IATA: Not hazardous for transport IMDG: Not hazardous for transport

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	CAS Nbr	<u>Classification</u>	Regulation
Cumene	98-82-8	Grp. 2B: Possible human	International Agency
		carc.	for Research on Cancer

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the chemical notification requirements of TSCA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

15.2. Chemical Safety Assessment

Not applicable

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SECTION 16: Other information

List of relevant H statements

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic 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.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repe

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H373	May cause damage to organs through prolonged or repeated exposure.
TT / 1 1	The first and the 11 Co. 141. 1 and

H411 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.

Revision information:

Section 2: <125ml Hazard - Environmental information was added.

Section 2: <125ml Hazard - Health information was added.

Section 2: <125ml Precautionary - Prevention information was added.

Section 2: <125ml Precautionary - Response information was added.

CLP: Ingredient table information was modified.

Label: CLP Percent Unknown information was modified.

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

Section 7: Precautions safe handling information information was modified.

Section 8: Occupational exposure limit table information was added.

Section 8: Occupational exposure limit table information was modified.

OEL Reg Agency Desc information was added.

Section 8: STEL key information was added.

Section 8: TWA key information was added.

Section 9: Property description for optional properties information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Aspiration Hazard Table information was added.

Section 11: Aspiration Hazard taste information was added. Section 11: Aspiration Hazard text information was deleted.

Section 11: Cancer Hazards information information was added.

Section 11: Carcinogenicity Table information was added.

Section 11: Carcinogenicity table information was added.

Section 11. Careinogementy text information was defeted.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Health Effects - Skin information information was modified.

Section 11: Reproductive Hazards information information was added.

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: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

Section 13: Standard Phrase Category Waste GHS information was modified.

Section 14: Transportation classification information was modified.

Section 15: Carcinogenicity information information was added.

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.

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