



Safety Data Sheet

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|---------------------------------------|-------------------|-------------------------|------------|
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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 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 2 - Aquatic Chronic 2; H411

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) | GHS09 (Environment) |

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 |
| 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 |
| H411 | Toxic 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. |

<=125 ml Precautionary statements

Prevention:

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

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 Registration No. | % by Wt | Classification |
|------------------------------------------------------------|------------|-----------|------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Phenoxyethyl methacrylate | 10595-06-9 | 234-201-1 | | 10 - 40 | Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319 |
| 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 | 609-946-4 | | 5 - 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 |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | 204-327-1 | | < 1 | Repr. 2, H361f; Aquatic Chronic 2, H411 |

Note: Any entry in the EC# 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

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

| <u>Substance</u> | <u>Condition</u> |
|---------------------------------|--------------------|
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |
| Oxides of nitrogen. | During combustion. |
| Toxic vapour, gas, particulate. | During combustion. |

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, 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. 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/occupational use only. Not for consumer sale or use. 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/m ³ (25 ppm);STEL:250 mg/m ³ (50 ppm) | SKIN |

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:

| Material | Thickness (mm) | Breakthrough Time |
|-----------------|-------------------|-------------------|
| Butyl rubber. | No data available | No data available |
| Fluoroelastomer | No data available | No 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/Odour | white, low odour |
| Odour threshold | <i>No data available.</i> |
| pH | <i>Not applicable.</i> |
| Boiling point/boiling range | ≥ 102.8 °C |
| Melting point | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not applicable. |
| Explosive properties | Not classified |
| Oxidising properties | Not classified |
| Flash point | 102.2 °C [<i>Test Method: Closed Cup</i>] |
| Autoignition temperature | <i>No data available.</i> |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| 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 | Not applicable. |
| 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. |
| Molecular weight | 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

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

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 |
| 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 | Professional judgement | LD50 estimated to be > 5,000 mg/kg |

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

| | | | |
|-----------------------------------------------|-----------------------------|--------|---------------------|
| 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-Vapour (4 hours) | Rat | LC50 1.4 mg/l |
| α,α -Dimethylbenzyl hydroperoxide | Ingestion | Rat | LD50 382 mg/kg |
| Cumene | Dermal | Rabbit | LD50 > 3,160 mg/kg |
| Cumene | Inhalation-Vapour (4 hours) | Rat | LC50 39.4 mg/l |
| Cumene | Ingestion | Rat | LD50 1,400 mg/kg |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| 6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|------------------------------------------------------------|------------------------|---------------------------|
| 2-Phenoxyethyl methacrylate | similar compounds | Irritant |
| 2-Hydroxyethyl methacrylate | Rabbit | Minimal irritation |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | Professional judgement | No significant irritation |
| Methacrylic acid, monoester with propane-1,2-diol | Rabbit | Minimal irritation |
| α,α -Dimethylbenzyl hydroperoxide | Rabbit | Corrosive |
| Cumene | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|------------------------------------------------------------|------------------------|---------------------------|
| 2-Phenoxyethyl methacrylate | similar compounds | Severe irritant |
| 2-Hydroxyethyl methacrylate | Rabbit | Moderate irritant |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | Professional judgement | No significant irritation |
| Methacrylic acid, monoester with propane-1,2-diol | Rabbit | Moderate irritant |
| α,α -Dimethylbenzyl hydroperoxide | Rabbit | Corrosive |
| Cumene | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|---------------------------------------------------|------------------|----------------|
| 2-Hydroxyethyl methacrylate | Human and animal | Sensitising |
| Methacrylic acid, monoester with propane-1,2-diol | Human and animal | Sensitising |
| Bisphenol A dimethacrylate, ethoxylated | Guinea pig | Not classified |
| Cumene | Guinea pig | Not classified |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

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

| 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 |
| 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

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

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 | pre mating & 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 | pre mating & during gestation |
| Methacrylic acid, monoester with propane-1,2-diol | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | pre mating 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 |
| Cumene | Inhalation | Not classified for development | Rabbit | NOAEL 11.3 mg/l | during organogenesis |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | Ingestion | Not classified for female reproduction | Rat | NOAEL 50 mg/kg/day | pre mating & during gestation |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-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

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------------------------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-------------------|
| Methacrylic acid, monoester with propane-1,2-diol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| α,α -Dimethylbenzyl | Inhalation | central nervous | May cause drowsiness or | Human | NOAEL Not | occupational |

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

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

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 |
| 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.

3M Scotch-Weld™ Low Odour Acrylic Adhesive DP810 Tan and Low Odour Acrylic Adhesive 810 Tan, Part A
12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|------------------------------------------------------------|------------|----------------|-------------------------------------------------------|----------|--------------------------|-------------|
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Green algae | Experimental | 96 hours | EC50 | 4.1 mg/l |
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Golden Orfe | Experimental | 96 hours | LC50 | 10 mg/l |
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Water flea | Experimental | 48 hours | EC50 | 1.21 mg/l |
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Green algae | Experimental | 96 hours | Effect Concentration 10% | 0.42 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 |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Golden Orfe | Experimental | 48 hours | EC50 | 493 mg/l |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Water flea | Experimental | 48 hours | EC50 | >143 mg/l |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Green Algae | Experimental | 72 hours | EC50 | >97.2 mg/l |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Green Algae | Experimental | 72 hours | NOEC | 97.2 mg/l |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Water flea | Experimental | 21 days | NOEC | 45.2 mg/l |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | 9010-81-5 | | Data not available or insufficient for classification | | | |
| Bisphenol A dimethacrylate, ethoxylated | 41637-38-1 | Green algae | Endpoint not reached | 72 hours | EC50 | >100 mg/l |
| Bisphenol A dimethacrylate, ethoxylated | 41637-38-1 | Green algae | Experimental | 72 hours | NOEC | 0.05 mg/l |
| α,α -Dimethylbenzyl hydroperoxide | 80-15-9 | Green algae | Experimental | 72 hours | EC50 | 3.1 mg/l |
| α,α -Dimethylbenzyl hydroperoxide | 80-15-9 | Water flea | Experimental | 48 hours | EC50 | 18.84 mg/l |
| α,α -Dimethylbenzyl hydroperoxide | 80-15-9 | Rainbow trout | Experimental | 96 hours | LC50 | 3.9 mg/l |
| α,α -Dimethylbenzyl hydroperoxide | 80-15-9 | Green algae | Experimental | 72 hours | NOEC | 1 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | Green Algae | Endpoint not reached | 72 hours | EC50 | >100 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | Water flea | Endpoint not reached | 48 hours | EC50 | >100 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | Ricefish | Experimental | 96 hours | LC50 | >100 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | Green Algae | Experimental | 72 hours | NOEC | 1.3 mg/l |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | Water flea | Experimental | 21 days | NOEC | 0.34 mg/l |

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

| | | | | | | |
|--------|---------|---------------|--------------|----------|------|-----------|
| Cumene | 98-82-8 | Mysid Shrimp | Experimental | 96 hours | EC50 | 1.3 mg/l |
| Cumene | 98-82-8 | Rainbow trout | Experimental | 96 hours | LC50 | 4.8 mg/l |
| Cumene | 98-82-8 | Green algae | Experimental | 72 hours | EC50 | 2.6 mg/l |
| Cumene | 98-82-8 | Green algae | Experimental | 72 hours | NOEC | 0.22 mg/l |
| Cumene | 98-82-8 | Water flea | Experimental | 21 days | NOEC | 0.35 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|------------------------------------------------------------|------------|-----------------------------------|----------|-------------------------------|------------------|-----------------------------------|
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Experimental Biodegradation | 28 days | BOD | 22.3 % BOD/ThBOD | OECD 301D - Closed bottle test |
| 2-Hydroxyethyl methacrylate | 868-77-9 | Experimental Biodegradation | 14 days | BOD | 95 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Experimental Biodegradation | 28 days | BOD | 81 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | 9010-81-5 | Data not available - insufficient | | | N/A | |
| Bisphenol A dimethacrylate, ethoxylated | 41637-38-1 | Estimated Biodegradation | 28 days | CO2 evolution | 7-12 % weight | OECD 301B - Modified sturm or CO2 |
| α,α -Dimethylbenzyl hydroperoxide | 80-15-9 | Experimental Biodegradation | 28 days | BOD | 0 % BOD/ThBOD | OECD 301C - MITI test (I) |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | Experimental Biodegradation | 28 days | BOD | 0 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Cumene | 98-82-8 | Experimental Photolysis | | Photolytic half-life (in air) | 4.5 days (t 1/2) | Other methods |
| Cumene | 98-82-8 | Experimental Biodegradation | 14 days | BOD | 33 % weight | OECD 301C - MITI test (I) |

12.3 : Bioaccumulative potential

| Material | Cas No. | 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 | 0.42 | Other methods |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Experimental 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 |
| α,α -Dimethylbenzyl hydroperoxide | 80-15-9 | Experimental Bioconcentration | | Log Kow | 1.82 | Other methods |
| 6,6'-Di-tert-butyl-2,2'-methylene-di-p-cresol | 119-47-1 | Experimental BCF- Carp | 60 days | Bioaccumulation factor | 840 | OECD 305E - Bioaccumulation flow-through fish test |
| Cumene | 98-82-8 | Estimated Bioconcentration | | Bioaccumulation factor | 140 | Other methods |

12.4. Mobility in soil

Please contact manufacturer for more details

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

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER, CUMENE HYDROPEROXIDE); 9; III; (-).

IATA: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER, CUMENE HYDROPEROXIDE); 9; III

IMDG: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER, CUMENE HYDROPEROXIDE); 9; III; Marine Pollutant: ACRYLATE MONOMER, CUMENE HYDROPEROXIDE; EMS: FA, SF.

Exemption: For vessels containing a net quantity of 5 l or a net mass of 5 kg or less per single or inner packaging, special provision 375 (ADR), exemption per 2.10.2.7 (IMDG) or special provision A197 (IATA) may be applied, if applicable

SECTION 15: Regulatory information

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

Carcinogenicity

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u> | <u>Regulation</u> |
|-------------------|----------------|-------------------------------|---------------------------------------------|
| Cumene | 98-82-8 | Grp. 2B: Possible human carc. | International Agency 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC

inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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.

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 repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Revision information:

Section 7: Precautions safe handling information information was modified.

Section 11: Reproductive and/or Developmental Effects text information was deleted.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

Section 14: Transportation classification 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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| | | | |
|---------------------------------------|-------------------|-------------------------|------------|
| Document group: | 08-6239-1 | Version number: | 19.00 |
| Revision date: | 07/06/2019 | Supersedes date: | 13/06/2018 |
| 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 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 2 - Aquatic Chronic 2; H411

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) | GHS09 (Environment) |

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 |
| Phenothiazine | 92-84-2 | 202-196-5 | < 1 |

HAZARD STATEMENTS:

| | |
|------|--------------------------------------------------|
| H318 | Causes serious eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|-------------------------------------------------|
| P280B | Wear protective gloves and eye/face protection. |
| P273 | Avoid release to the environment. |

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. |

<=125 ml Precautionary statements

Prevention:

| | |
|-------|-------------------------------------------------|
| P280B | Wear protective gloves and eye/face protection. |
|-------|-------------------------------------------------|

3M Scotch-Weld™ Low Odour Acrylic Adhesive DP810 Tan and Low Odour Acrylic Adhesive 810 Tan, Part B**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 | Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319 |
| 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 | 609-946-4 | | 5 - 20 | Aquatic Chronic 4, H413 |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | 52628-03-2 | 258-053-2 | | < 4 | Skin Corr. 1C, H314; Skin Sens. 1B, H317 |
| 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 |

Note: Any entry in the EC# 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

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

Substance

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

Condition

During combustion.
During combustion.
During combustion.
During combustion.

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, 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. 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/occupational use only. Not for consumer sale or use. 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

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

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

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/Odour | slight fragrance, green |
| Odour threshold | <i>No data available.</i> |
| pH | <i>Not applicable.</i> |
| Boiling point/boiling range | > 93 °C |
| Melting point | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not applicable. |
| Explosive properties | Not classified |
| Oxidising properties | Not classified |
| Flash point | > 93.3 °C [Test Method: Closed Cup] |
| Autoignition temperature | <i>No data available.</i> |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Vapour pressure | ≤ 13.3 Pa |
| Relative density | 1.07 [Ref Std: WATER=1] |
| Water solubility | Slight (less than 10%) |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Evaporation rate | <i>No data available.</i> |
| Vapour density | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity | 20,000 mPa-s |
| Density | 1.07 g/ml |

9.2. Other information

| | |
|--------------------------------------|---------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Molecular weight | <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 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

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.
Photosensitisation: Signs/symptoms may include a sunburn-like reaction such as blistering, redness, swelling, and itching from minor exposure to sunlight.

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.

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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 ATE 2,000 - 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 | Professional judgement | 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 | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Mequinol | Dermal | Rat | LD50 > 2,000 mg/kg |
| Mequinol | Ingestion | Rat | LD50 1,630 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 compounds | Irritant |
| 2-Hydroxyethyl methacrylate | Rabbit | Minimal irritation |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | Professional judgement | No significant irritation |
| Methacrylic acid, monoester with propane-1,2-diol | Rabbit | Minimal irritation |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | Rabbit | Corrosive |
| Mequinol | Rabbit | Mild irritant |
| Phenothiazine | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------------------------------------------|------------------------|---------------------------|
| 2-Phenoxyethyl methacrylate | similar compounds | Severe irritant |
| 2-Hydroxyethyl methacrylate | Rabbit | Moderate irritant |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | Professional judgement | No significant irritation |
| Methacrylic acid, monoester with propane-1,2-diol | Rabbit | Moderate irritant |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | similar health | Corrosive |

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| | | |
|---------------|---------|-----------------|
| | hazards | |
| Mequinol | Rabbit | Severe irritant |
| Phenothiazine | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|--------------------------------------------------------------|------------------|----------------|
| 2-Hydroxyethyl methacrylate | Human and animal | Sensitising |
| Methacrylic acid, monoester with propane-1,2-diol | Human and animal | Sensitising |
| Bisphenol A dimethacrylate, ethoxylated | Guinea pig | Not classified |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | Mouse | Sensitising |
| Mequinol | Guinea pig | Sensitising |
| Phenothiazine | Guinea pig | Sensitising |

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

| 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 |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | In Vitro | Not mutagenic |
| Mequinol | In vivo | Not mutagenic |
| Mequinol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 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 animal species | Not 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 |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure |
|------|-------|-------|---------|-------------|----------|
|------|-------|-------|---------|-------------|----------|

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| | | | | | Duration |
|--------------------------------------------------------------|-----------|----------------------------------------|-----|-----------------------|-------------------------------|
| 2-Hydroxyethyl methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | pre mating & 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 | pre mating & during gestation |
| Methacrylic acid, monoester with propane-1,2-diol | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | pre mating 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 |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| Mequinol | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | pre mating 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 |
| Phenothiazine | Ingestion | Not classified for development | Rat | NOAEL 150 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 |
|--------------------------------------------------------------|--------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|--------------------------|
| Methacrylic acid, monoester with propane-1,2-diol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | 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 | |

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 |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | Ingestion | hematopoietic system kidney and/or bladder heart liver immune system eyes | Not classified | Rat | NOAEL 300 mg/kg/day | 90 days |
| Mequinol | Ingestion | gastrointestinal tract | Not classified | Rat | LOAEL 300 | 28 days |

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| | | | | | mg/kg/day | |
|---------------|-----------|---------------------------------------------------------------------------------------|------------------------------------------------------------------|-----|---------------------|----------|
| 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 |
| 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 # | Organism | Type | Exposure | Test endpoint | Test result |
|---------------------------------------------------|------------|----------------|--------------|----------|--------------------------|-------------|
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Green algae | Experimental | 96 hours | EC50 | 4.1 mg/l |
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Golden Orfe | Experimental | 96 hours | LC50 | 10 mg/l |
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Water flea | Experimental | 48 hours | EC50 | 1.21 mg/l |
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Green algae | Experimental | 96 hours | Effect Concentration 10% | 0.42 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 |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Golden Orfe | Experimental | 48 hours | EC50 | 493 mg/l |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Water flea | Experimental | 48 hours | EC50 | >143 mg/l |

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| | | | | | | |
|--------------------------------------------------------------|------------|---------------|-------------------------------------------------------|----------|------|------------|
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Green Algae | Experimental | 72 hours | EC50 | >97.2 mg/l |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Green Algae | Experimental | 72 hours | NOEC | 97.2 mg/l |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Water flea | Experimental | 21 days | NOEC | 45.2 mg/l |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | 9010-81-5 | | Data not available or insufficient for classification | | | |
| Bisphenol A dimethacrylate, ethoxylated | 41637-38-1 | Green algae | Endpoint not reached | 72 hours | EC50 | >100 mg/l |
| Bisphenol A dimethacrylate, ethoxylated | 41637-38-1 | Green algae | Experimental | 72 hours | NOEC | 0.05 mg/l |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate | 52628-03-2 | | Data not available or insufficient for classification | | | |
| 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 |
| Mequinol | 150-76-5 | Green Algae | Experimental | 72 hours | EC50 | 54.7 mg/l |
| 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 |
| Phenothiazine | 92-84-2 | Water flea | Experimental | 48 hours | EC50 | 0.154 mg/l |
| Phenothiazine | 92-84-2 | Green Algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Phenothiazine | 92-84-2 | Rainbow trout | Experimental | 96 hours | LC50 | 0.597 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--------------------------------------------------------------|------------|-----------------------------------|----------|---------------|------------------|-----------------------------------|
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Experimental Biodegradation | 28 days | BOD | 22.3 % BOD/ThBOD | OECD 301D - Closed bottle test |
| 2-Hydroxyethyl methacrylate | 868-77-9 | Experimental Biodegradation | 14 days | BOD | 95 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Experimental Biodegradation | 28 days | BOD | 81 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Acrylonitrile - 1,3-butadiene - methacrylic acid copolymer | 9010-81-5 | Data not available - insufficient | | | 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 - insufficient | | | N/A | |
| Mequinol | 150-76-5 | Experimental Biodegradation | 28 days | BOD | 86 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Phenothiazine | 92-84-2 | Experimental Biodegradation | 28 days | BOD | 0 % BOD/ThBOD | OECD 301D - Closed bottle test |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|-----------------------------|------------|----------------------------|----------|------------------------|-------------|------------------------------------|
| 2-Phenoxyethyl methacrylate | 10595-06-9 | Estimated Bioconcentration | | Bioaccumulation factor | 5.8 | Estimated: Bioconcentration factor |

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| | | | | | | |
|--------------------------------------------------------------|------------|-------------------------------------------------------|---------|------------------------|------|------------------------------------|
| 2-Hydroxyethyl methacrylate | 868-77-9 | Experimental Bioconcentration | | Log Kow | 0.42 | Other methods |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | Experimental 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

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

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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

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

Exemption: For vessels containing a net quantity of 5 l or a net mass of 5 kg or less per single or inner packaging, special provision 375 (ADR), exemption per 2.10.2.7 (IMDG) or special provision A197 (IATA) may be applied, if applicable
ADR: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER); 9; III; (-)

IMDG: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER); 9; III; Marine Pollutant: ACRYLATE MONOMER; EMS: FA, SF.

IATA: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE MONOMER); 9; III

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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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.

SECTION 16: Other information

List of relevant H statements

| | |
|------|--------------------------------------------------------------------|
| H302 | Harmful if swallowed. |
| 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. |
| 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. |
| 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 7: Precautions safe handling 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: Reproductive and/or Developmental Effects text information was deleted.
Section 11: Reproductive Toxicity 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: Biocumulative potential information information was modified.
Section 13: 13.1. Waste disposal note information was modified.
Section 14: Transportation classification information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our

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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