# Safety Data Sheet



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| **Document group:** | 08-6267-2 | **Version number:** | 5.00 |
| **Issue Date:** | 01/02/2023 | **Supersedes date:** | 03/10/2018 |

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

## IDENTIFICATION:

**1.1. Product identifier**
3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP810

**Product Identification Numbers**
62-3298-1436-2

**1.2. Recommended use and restrictions on use**

**Recommended use**
Structural adhesive.

**1.3. Supplier's details**

| | |
|---|---|
| **Address:** | 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland |
| **Telephone:** | (09) 477 4040 |
| **E Mail:** | innovation@nz.mmm.com |
| **Website:** | 3m.co.nz |

**1.4. Emergency telephone number**
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

**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 SDSs for components of this product are:**

08-6252-4, 08-6239-1

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

## TRANSPORT INFORMATION

The Dangerous Goods Classification for the complete Kit is provided below.

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

**UN No.:** UN3082

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., ( Acrylate Monomer, Cumene Hydroperoxide )
**Class/Division:** 9
**Packing Group:** III
**Marine Pollutant:** Acrylate Monomer, Cumene Hydroperoxide

**Hazchem Code:** -3Z
**IERG:** 47

**Land Transport Rule: Dangerous Goods - Road/Rail Transport**
**Special Instructions:** Not restricted, environmentally hazardous substance exception.

**International Air Transport Association (IATA)- Air Transport**
**Special Instructions:** Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**
**Special Instructions:** Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

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

**UN No.:** UN3082
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., ( Phenoxy Ethyl Methacrylate )
**Class/Division:** 9
**Packing Group:** III
**Marine Pollutant:** Phenoxy Ethyl Methacrylate

**Hazchem Code:** -3Z
**IERG:** 47

**Land Transport Rule: Dangerous Goods - Road/Rail Transport**
**Special Instructions:** Not restricted, environmentally hazardous substance exception.

**International Air Transport Association (IATA)- Air Transport**
**Special Instructions:** Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**
**Special Instructions:** Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

**Revision information:**
Complete document review.

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**3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz**

# Safety Data Sheet



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| **Document group:** | 08-6239-1 | **Version number:** | 5.00 |
| **Issue Date:** | 31/01/2023 | **Supersedes date:** | 08/10/2018 |

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP810 Tan and Low Odor Acrylic Adhesive 810 Tan, Part B

**1.2. Recommended use and restrictions on use**

**Recommended use**
Structural adhesive.

For Industrial or Professional use only

**1.3. Supplier's details**

| | |
|---|---|
| **Address:** | 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland |
| **Telephone:** | (09) 477 4040 |
| **E Mail:** | innovation@nz.mmm.com |
| **Website:** | 3m.co.nz |

**1.4. Emergency telephone number**
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

## SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.
Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

**2.1. Classification of the substance or mixture**
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Irritation: Category 1
Skin Sensitiser: Category 1
Chronic Aquatic Toxicity: Category 2

**2.2. Label elements**
**SIGNAL WORD**
Danger

**Symbols:**

Corrosion |Exclamation mark |Environment |

**Pictograms**

**HAZARD STATEMENTS:**

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

**PRECAUTIONARY STATEMENTS**

**Prevention**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280B | Wear protective gloves and eye/face protection. |

**Response**

| | |
|---|---|
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| 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 CENTER or doctor/physician. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |

**Disposal**

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |

## SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | % by Weight |
|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | 10 - 40 |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | 10 - 30 |
| Hydroxyethyl Methacrylate | 27813-02-1 | 10 - 30 |
| Acrylate oligomer | 41637-38-1 | 5 - 20 |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | 5 - 20 |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | < 4 |
| Phenothiazine | 92-84-2 | < 1 |

## 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.
A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

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

**4.2. Most important symptoms and effects, both acute and delayed**
The most important symptoms and effects based on the CLP classification include:

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable 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 | Condition |
|---|---|
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |
| Oxides of nitrogen. | During combustion. |
| Toxic vapour, gas, particulate. | During combustion. |

**5.3. Special protective actions 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.

**5.4. Hazchem code:** 3Z

## 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 vapors, 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 in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

**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. Aluminum, 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. Certified handler**
Not required

## 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 |
|---|---|---|---|---|
| Phenothiazine | 92-84-2 | ACGIH | TWA:5 mg/m3 | Danger of cutaneous absorption |
| Phenothiazine | 92-84-2 | New Zealand WES | TWA(8 hours):5 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
New Zealand WES : New Zealand Workplace Exposure Standards.
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
mg/m³: milligrams per cubic metre
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure 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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

**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: Polymer laminate

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

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

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Specific Physical Form:** | Paste |
| **Colour** | Green |
| **Odour** | Methacrylate |
| **Odour threshold** | *No data available.* |
| **pH** | *Not applicable.* |
| **Melting point/Freezing point** | *Not applicable.* |
| **Boiling point/Initial boiling point/Boiling range** | > 93 ºC |
| **Flash point** | > 93.3 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | *No data available.* |
| **Flammability (solid, gas)** | Not applicable. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Vapour pressure** | <=13.3 Pa |
| **Vapor Density and/or Relative Vapor Density** | *No data available.* |
| **Density** | 1.07 g/ml |
| **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.* |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **Viscosity/Kinematic Viscosity** | 20,000 mPa-s |

| | |
|---|---|
| **Volatile organic compounds (VOC)** | *No data available.* |
| **Percent volatile** | *No data available.* |
| **VOC less H2O & exempt solvents** | 3.1 g/l [*Details:*when used as intended with Part A] |
| **VOC less H2O & exempt solvents** | 0.3 % [*Details:*when used as intended with Part A] |
| **VOC less H2O & exempt solvents** | 319 g/l [*Test Method:*tested per EPA method 24] [*Details:*as supplied] |
| **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**

| Substance | Condition |
|---|---|
| None known. | |

Refer to Section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**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 localized 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.

**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 |
| Phenoxyethyl Methacrylate | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 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-Butadiene Polymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Acrylonitrile-Butadiene Polymer | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Hydroxyethyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydroxyethyl Methacrylate | Ingestion | Rat | LD50 > 11,200 mg/kg |
| Acrylate oligomer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Acrylate oligomer | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 2-Hydroxyethyl Methacrylate Phosphate | Ingestion | Rat | LD50 > 2,000 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 |
|---|---|---|
| Phenoxyethyl Methacrylate | similar compounds | Irritant |
| 2-Hydroxyethyl Methacrylate | Rabbit | Minimal irritation |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Hydroxyethyl Methacrylate | Rabbit | Minimal irritation |
| Acrylate oligomer | In vitro data | No significant irritation |
| 2-Hydroxyethyl Methacrylate Phosphate | Rabbit | Corrosive |
| Phenothiazine | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|

| | | |
|---|---|---|
| Phenoxyethyl Methacrylate | similar compounds | Severe irritant |
| 2-Hydroxyethyl Methacrylate | Rabbit | Moderate irritant |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Hydroxyethyl Methacrylate | Rabbit | Moderate irritant |
| Acrylate oligomer | In vitro data | No significant irritation |
| 2-Hydroxyethyl Methacrylate Phosphate | similar health hazards | Corrosive |
| Phenothiazine | Rabbit | Mild irritant |

**Sensitisation:**

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| 2-Hydroxyethyl Methacrylate | Human and animal | Sensitising |
| Hydroxyethyl Methacrylate | Human and animal | Sensitising |
| Acrylate oligomer | Multiple animal species | Not classified |
| 2-Hydroxyethyl Methacrylate Phosphate | Mouse | Sensitising |
| Phenothiazine | Guinea pig | Sensitising |

**Photosensitisation**

| Name | Species | Value |
|---|---|---|
| Phenothiazine | Human | Sensitising |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 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 |
| Hydroxyethyl Methacrylate | In vivo | Not mutagenic |
| Hydroxyethyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Acrylate oligomer | In Vitro | Not mutagenic |
| 2-Hydroxyethyl Methacrylate Phosphate | In Vitro | Not mutagenic |
| Phenothiazine | In Vitro | Not mutagenic |
| Phenothiazine | In vivo | Not mutagenic |

**Carcinogenicity**

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

**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 |
| Hydroxyethyl Methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Hydroxyethyl Methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 49 days |
| Hydroxyethyl Methacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| Acrylate oligomer | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Acrylate oligomer | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Acrylate oligomer | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| 2-Hydroxyethyl Methacrylate Phosphate | Ingestion | Not classified for development | Rat | NOAEL 1,000 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 |
|---|---|---|---|---|---|---|
| Hydroxyethyl Methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| 2-Hydroxyethyl Methacrylate Phosphate | 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 |
|---|---|---|---|---|---|---|
| Hydroxyethyl Methacrylate | Inhalation | blood | Not classified | Rat | NOAEL 0.5 mg/l | 21 days |
| Hydroxyethyl 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 |
| Acrylate oligomer | Ingestion | hematopoietic system \| liver \| immune system \| kidney and/or bladder \| endocrine system \| eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-Hydroxyethyl Methacrylate Phosphate | Ingestion | hematopoietic system \| kidney and/or bladder \| heart \| liver \| immune system \| eyes | Not classified | Rat | NOAEL 300 mg/kg/day | 90 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 are currently available or the data are 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 be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.**

**12.1. Toxicity**
**Ecotoxic to the aquatic environment.**
Acute Aquatic Toxicity: Category 2
Chronic Aquatic Toxicity: Category 2

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | Activated sludge | Analogous Compound | 3 hours | EC50 | 177 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Golden Orfe | Analogous Compound | 96 hours | LC50 | 10 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Green algae | Analogous Compound | 96 hours | ErC50 | 4.4 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Water flea | Analogous Compound | 48 hours | EC50 | 1.21 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Green algae | Analogous Compound | 96 hours | ErC10 | 0.74 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Turbot | Analogous Compound | 96 hours | LC50 | 833 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Fathead minnow | Experimental | 96 hours | LC50 | 227 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Green algae | Experimental | 72 hours | EC50 | 710 mg/l |
| 2- | 868-77-9 | Water flea | Experimental | 48 hours | EC50 | 380 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hydroxyethyl Methacrylate | | | | | | |
| 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 |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | N/A | Experimental | 16 hours | EC0 | >3,000 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | N/A | Experimental | 18 hours | LD50 | <98 mg per kg of bodyweight |
| Hydroxyethyl Methacrylate | 27813-02-1 | Bacteria | Experimental | N/A | EC10 | 1,140 mg/l |
| Hydroxyethyl Methacrylate | 27813-02-1 | Golden Orfe | Experimental | 48 hours | EC50 | 493 mg/l |
| Hydroxyethyl Methacrylate | 27813-02-1 | Green algae | Experimental | 72 hours | ErC50 | >97.2 mg/l |
| Hydroxyethyl Methacrylate | 27813-02-1 | Water flea | Experimental | 48 hours | EC50 | >143 mg/l |
| Hydroxyethyl Methacrylate | 27813-02-1 | Green algae | Experimental | 72 hours | NOEC | 97.2 mg/l |
| Hydroxyethyl Methacrylate | 27813-02-1 | Water flea | Experimental | 21 days | NOEC | 45.2 mg/l |
| Acrylate oligomer | 41637-38-1 | Activated sludge | Estimated | 3 hours | EC50 | >1,000 mg/l |
| Acrylate oligomer | 41637-38-1 | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Acrylate oligomer | 41637-38-1 | Rainbow trout | Estimated | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Acrylate oligomer | 41637-38-1 | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | Green algae | Experimental | 72 hours | EC50 | >120 mg/l |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | Rainbow trout | Experimental | 96 hours | LC50 | >112 mg/l |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | Water flea | Experimental | 48 hours | EC50 | 68 mg/l |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | Green algae | Experimental | 72 hours | NOEC | 30 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Phenothiazine | 92-84-2 | Activated sludge | Experimental | 3 hours | IC50 | >100 mg/l |
| Phenothiazine | 92-84-2 | Ciliated protozoa | Experimental | 48 hours | IC50 | 8 mg/l |
| Phenothiazine | 92-84-2 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| Phenothiazine | 92-84-2 | Rainbow trout | Experimental | 96 hours | LC50 | 0.597 mg/l |
| Phenothiazine | 92-84-2 | Water flea | Experimental | 48 hours | EC50 | 0.154 mg/l |

**12.2. Persistence and degradability**

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | Analogous Compound Biodegradation | 28 days | BOD | 22.3 %BOD/ThOD | OECD 301D - Closed bottle test |
| Phenoxyethyl Methacrylate | 10595-06-9 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 1 years (t 1/2) | OECD 111 Hydrolysis func of pH |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Experimental Biodegradation | 28 days | BOD | 84 %BOD/COD | OECD 301D - Closed bottle test |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Experimental Hydrolysis | | Hydrolytic half-life basic pH | 10.9 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| Hydroxyethyl Methacrylate | 27813-02-1 | Experimental Biodegradation | 28 days | BOD | 81 %BOD/ThOD | OECD 301C - MITI test (I) |
| Acrylate oligomer | 41637-38-1 | Experimental Biodegradation | 28 days | BOD | 24 %BOD/ThOD | OECD 301D - Closed bottle test |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | Experimental Biodegradation | 28 days | BOD | 93.1 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Phenothiazine | 92-84-2 | Experimental Biodegradation | 28 days | BOD | 0 %BOD/ThOD | OECD 301D - Closed bottle test |

**12.3 : Bioaccumulative potential**

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | Modeled Bioconcentration | | Bioaccumulation factor | 5.8 | Catalogic™ |
| Phenoxyethyl Methacrylate | 10595-06-9 | Experimental Bioconcentration | | Log Kow | 3.137 | OECD 117 log Kow HPLC method |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Experimental Bioconcentration | | Log Kow | 0.42 | OECD 107 log Kow shke flsk mtd |
| Hydroxyethyl Methacrylate | 27813-02-1 | Experimental Bioconcentration | | Log Kow | 0.97 | EC A.8 Partition Coefficient |
| Acrylate oligomer | 41637-38-1 | Estimated Bioconcentration | | Bioaccumulation factor | 6.6 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Acrylate oligomer | 41637-38-1 | Experimental Bioconcentration | | Log Kow | ≥4.66 | OECD 117 log Kow HPLC method |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | Experimental Bioconcentration | | Log Kow | 1 - 2.72 | OECD 117 log Kow HPLC method |
| Phenothiazine | 92-84-2 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 660 | |
| Phenothiazine | 92-84-2 | Experimental Bioconcentration | | Log Kow | 3.78 | OECD 117 log Kow HPLC method |

**12.4. Mobility in soil**
Please contact manufacturer for more details

**12.5 Other adverse effects**
No information available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**
In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

## SECTION 14: Transport Information

**New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**
**UN No.:** UN3082
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Phenoxy Ethyl Methacrylate )
**Class/Division:** 9
**Sub Risk:** Not applicable.
**Packing Group:** III
**Special Instructions:** Not restricted, environmentally hazardous substance exception.
**Hazchem Code:** 3Z
**IERG:** 47

**International Air Transport Association (IATA) - Air Transport**
**UN No.:** UN3082
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Phenoxy Ethyl

Methacrylate )
**Class/Division:** 9
**Sub Risk:** Not applicable.
**Packing Group:** III
**Special Instructions:** Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**
**UN No.:** UN3082
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Phenoxy Ethyl Methacrylate )
**Class/Division:** 9
**Sub Risk:** Not applicable.
**Packing Group:** III
**Marine Pollutant:** Phenoxy Ethyl Methacrylate
**Special Instructions:** Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

## SECTION 15: Regulatory information

| | |
|---|---|
| HSNO Approval number | HSR002670 |
| Group standard name | Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020 |
| HSNO Hazard classification | Refer to Section 2: Hazard identification |

**NZ Inventory of Chemicals (NZIoC) Status**
All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

**Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017**

| | |
|---|---|
| Certified handler | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances) |
| Secondary containment | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances) |
| Tracking | Not required |
| Warning signage | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances) |

## SECTION 16: Other information

**Revision information:**
Complete document review.

| | | | |
|---|---|---|---|
| **Document group:** | 08-6239-1 | **Version number:** | 5.00 |
| **Issue Date:** | 31/01/2023 | **Supersedes date:** | 08/10/2018 |

**Key to abbreviations and acronyms**
**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017
**HSNO** means Hazardous Substances and New Organisms Act 1996

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# Safety Data Sheet



| | | | |
|---|---|---|---|
| **Document group:** | 08-6252-4 | **Version number:** | 5.00 |
| **Issue Date:** | 31/01/2023 | **Supersedes date:** | 08/10/2018 |

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Low Odour Acrylic Adhesive DP810 Tan and Low Odour Acrylic Adhesive 810 Tan, Part A

**1.2. Recommended use and restrictions on use**

**Recommended use**
Structural adhesive.

For Industrial or Professional use only

**1.3. Supplier's details**

| | |
|---|---|
| **Address:** | 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland |
| **Telephone:** | (09) 477 4040 |
| **E Mail:** | innovation@nz.mmm.com |
| **Website:** | 3m.co.nz |

**1.4. Emergency telephone number**
24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

## SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.
Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

**2.1. Classification of the substance or mixture**
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Irritation: Category 1
Skin Sensitiser: Category 1
Carcinogenicity: Category 2
Reproductive Toxicity: Category 2
Specific Target Organ Toxicity (repeated exposure): Category 2
Chronic Aquatic Toxicity: Category 2

**2.2. Label elements**
**SIGNAL WORD**

Danger

**Symbols:**
Corrosion |Exclamation mark |Health Hazard |Environment |

**Pictograms**

**HAZARD STATEMENTS:**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| 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**

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280I | Wear protective gloves, eye/face protection, and respiratory protection. |

**Response**

| | |
|---|---|
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| 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 CENTER or doctor/physician. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |

**Storage**

| | |
|---|---|
| P405 | Store locked up. |

**Disposal**

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |

## SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | % by Weight |
|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | 10 - 40 |

| | | |
|---|---|---|
| 2-Hydroxyethyl Methacrylate | 868-77-9 | 10 - 30 |
| Hydroxypropyl Methacrylate | 27813-02-1 | 10 - 30 |
| Acrylate oligomer | 41637-38-1 | 5 - 20 |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | 5 - 20 |
| α,α-Dimethylbenzyl hydroperoxide | 80-15-9 | 1 - 5 |
| 2,2'-Methylenebis[6-tert-butyl-p-cresol] | 119-47-1 | < 1 |
| Cumene | 98-82-8 | < 1 |

## 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.
A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

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

**4.2. Most important symptoms and effects, both acute and delayed**
The most important symptoms and effects based on the CLP classification include:

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable 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 | Condition |
|---|---|
| Carbon monoxide. | During combustion. |
| Carbon dioxide. | During combustion. |
| Oxides of nitrogen. | During combustion. |
| Toxic vapour, gas, particulate. | During combustion. |

**5.3. Special protective actions 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.

**5.4. Hazchem code:** 3Z

## 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 vapors, 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 in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

**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. Aluminum, 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. Certified handler**
Not required

## 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 |
|---|---|---|---|---|
| α,α-Dimethylbenzyl hydroperoxide | 80-15-9 | AIHA | TWA:6 mg/m3(1 ppm) | Skin |
| Cumene | 98-82-8 | ACGIH | TWA:5 ppm | A3: Confirmed animal carcinogen. |
| Cumene | 98-82-8 | New Zealand WES | TWA(8 hours): 125 mg/m3 (25 ppm); STEL(15 minutes): 375 mg/m3 (75 ppm) | Skin |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
New Zealand WES : New Zealand Workplace Exposure Standards.
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
$mg/m^3$: milligrams per cubic metre
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure 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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

**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: Fluoroelastomer

**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 vapors and particulates

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

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Specific Physical Form:** | Paste |
| **Colour** | White |
| **Odour** | Low Odour |
| **Odour threshold** | *No data available.* |
| **pH** | *Not applicable.* |

| | |
|---|---|
| **Melting point/Freezing point** | *Not applicable.* |
| **Boiling point/Initial boiling point/Boiling range** | >=102.8 ºC |
| **Flash point** | 102.2 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | *No data available.* |
| **Flammability (solid, gas)** | Not applicable. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Vapour pressure** | <=13.3 Pa |
| **Vapor Density and/or Relative Vapor Density** | *Not applicable.* |
| **Density** | 1.07 g/ml |
| **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.* |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **Viscosity/Kinematic Viscosity** | 20,000 mPa-s |
| **Volatile organic compounds (VOC)** | *No data available.* |
| **Percent volatile** | *No data available.* |
| **VOC less H2O & exempt solvents** | 3.1 g/l [*Details:*when used as intended with Part B] |
| **VOC less H2O & exempt solvents** | 0.3 % [*Details:*when used as intended with Part B] |
| **VOC less H2O & exempt solvents** | 349 g/l [*Test Method:*tested per EPA method 24] [*Details:*as supplied] |
| **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**

| **Substance** | **Condition** |
|---|---|
| None known. | |

Refer to Section 5.2 for hazardous decomposition products during combustion.

# SECTION 11: Toxicological information

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

**11.1 Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**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 localized 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 ATE >2,000 - =5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >20 - =50 mg/l |

| | | | |
|---|---|---|---|
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Phenoxyethyl Methacrylate | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 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-Butadiene Polymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Acrylonitrile-Butadiene Polymer | 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 > 11,200 mg/kg |
| Acrylate oligomer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Acrylate oligomer | Ingestion | Rat | LD50 > 2,000 mg/kg |
| α,α-Dimethylbenzyl hydroperoxide | Dermal | Rat | LD50 500 mg/kg |
| α,α-Dimethylbenzyl hydroperoxide | Inhalation-Vapor (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-Vapor (4 hours) | Rat | LC50 39.4 mg/l |
| 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 |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Phenoxyethyl Methacrylate | similar compounds | Irritant |
| 2-Hydroxyethyl Methacrylate | Rabbit | Minimal irritation |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Hydroxypropyl Methacrylate | Rabbit | Minimal irritation |
| Acrylate oligomer | In vitro data | No significant irritation |
| α,α-Dimethylbenzyl hydroperoxide | Rabbit | Corrosive |
| Cumene | Rabbit | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Phenoxyethyl Methacrylate | similar compounds | Severe irritant |
| 2-Hydroxyethyl Methacrylate | Rabbit | Moderate irritant |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Hydroxypropyl Methacrylate | Rabbit | Moderate irritant |
| Acrylate oligomer | In vitro data | No significant irritation |
| α,α-Dimethylbenzyl hydroperoxide | Rabbit | Corrosive |
| Cumene | Rabbit | Mild irritant |

**Sensitisation:**

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| 2-Hydroxyethyl Methacrylate | Human and animal | Sensitising |
| Hydroxypropyl Methacrylate | Human and animal | Sensitising |
| Acrylate oligomer | Multiple animal species | Not classified |
| Cumene | Guinea pig | Not classified |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 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 |
| Acrylate oligomer | 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 |
|---|---|---|---|
| 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 | 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 |

| | | | | | |
|---|---|---|---|---|---|
| Acrylate oligomer | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Acrylate oligomer | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Acrylate oligomer | 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

| 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 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 |
|---|---|---|---|---|---|---|
| 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 |
| Acrylate oligomer | Ingestion | hematopoietic system \| liver \| immune system \| kidney and/or bladder \| endocrine system \| eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 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 \| | Not classified | Rat | NOAEL 59 mg/l | 13 weeks |

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

**12.1. Toxicity**
**Ecotoxic to the aquatic environment.**
Acute Aquatic Toxicity: Category 2
Chronic Aquatic Toxicity: Category 2

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | Activated sludge | Analogous Compound | 3 hours | EC50 | 177 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Golden Orfe | Analogous Compound | 96 hours | LC50 | 10 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Green algae | Analogous Compound | 96 hours | ErC50 | 4.4 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Water flea | Analogous Compound | 48 hours | EC50 | 1.21 mg/l |
| Phenoxyethyl Methacrylate | 10595-06-9 | Green algae | Analogous Compound | 96 hours | ErC10 | 0.74 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Turbot | Analogous Compound | 96 hours | LC50 | 833 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Fathead minnow | Experimental | 96 hours | LC50 | 227 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Green algae | Experimental | 72 hours | EC50 | 710 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Water flea | Experimental | 48 hours | EC50 | 380 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Green algae | Experimental | 72 hours | NOEC | 160 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Water flea | Experimental | 21 days | NOEC | 24.1 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | N/A | Experimental | 16 hours | EC0 | >3,000 mg/l |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | N/A | Experimental | 18 hours | LD50 | <98 mg per kg of bodyweight |
| Hydroxypropyl Methacrylate | 27813-02-1 | Bacteria | Experimental | N/A | EC10 | 1,140 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Golden Orfe | Experimental | 48 hours | EC50 | 493 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Green algae | Experimental | 72 hours | ErC50 | >97.2 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Water flea | Experimental | 48 hours | EC50 | >143 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Green algae | Experimental | 72 hours | NOEC | 97.2 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Water flea | Experimental | 21 days | NOEC | 45.2 mg/l |
| Acrylate oligomer | 41637-38-1 | Activated sludge | Estimated | 3 hours | EC50 | >1,000 mg/l |
| Acrylate oligomer | 41637-38-1 | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Acrylate oligomer | 41637-38-1 | Rainbow trout | Estimated | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Acrylate oligomer | 41637-38-1 | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| α,α-Dimethylbenzyl hydroperoxide | 80-15-9 | Bacteria | Experimental | 18 hours | EC10 | 0.103 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 | Rainbow trout | Experimental | 96 hours | LC50 | 3.9 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 | Green algae | Experimental | 72 hours | NOEC | 1 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2,2'-Methylenebis[6-tert-butyl-p-cresol] | 119-47-1 | Green algae | Endpoint not reached | 72 hours | EC50 | >100 mg/l |
| 2,2'-Methylenebis[6-tert-butyl-p-cresol] | 119-47-1 | Water flea | Endpoint not reached | 48 hours | EC50 | >100 mg/l |
| 2,2'-Methylenebis[6-tert-butyl-p-cresol] | 119-47-1 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 mg/l |
| 2,2'-Methylenebis[6-tert-butyl-p-cresol] | 119-47-1 | Medaka | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| 2,2'-Methylenebis[6-tert-butyl-p-cresol] | 119-47-1 | Green algae | Experimental | 72 hours | NOEC | 1.3 mg/l |
| Cumene | 98-82-8 | Activated sludge | Experimental | 3 hours | EC10 | >2,000 mg/l |
| Cumene | 98-82-8 | Green algae | Experimental | 72 hours | EC50 | 2.6 mg/l |
| Cumene | 98-82-8 | Mysid Shrimp | Experimental | 96 hours | EC50 | 1.2 mg/l |
| Cumene | 98-82-8 | Rainbow trout | Experimental | 96 hours | LC50 | 2.7 mg/l |
| Cumene | 98-82-8 | Water flea | Experimental | 48 hours | EC50 | 2.14 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 Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | Analogous Compound Biodegradation | 28 days | BOD | 22.3 %BOD/ThOD | OECD 301D - Closed bottle test |
| Phenoxyethyl Methacrylate | 10595-06-9 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 1 years (t 1/2) | OECD 111 Hydrolysis func of pH |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Experimental Biodegradation | 28 days | BOD | 84 %BOD/COD | OECD 301D - Closed bottle test |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Experimental Hydrolysis | | Hydrolytic half-life basic pH | 10.9 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Biodegradation | 28 days | BOD | 81 %BOD/ThOD | OECD 301C - MITI test (I) |
| Acrylate oligomer | 41637-38-1 | Experimental Biodegradation | 28 days | BOD | 24 %BOD/ThOD | OECD 301D - Closed bottle test |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| α,α-Dimethylbenzyl hydroperoxide | 80-15-9 | Experimental Biodegradation | 28 days | BOD | 0 %BOD/ThOD | OECD 301C - MITI test (I) |
| 2,2'- | 119-47-1 | Experimental | 28 days | BOD | 0 %BOD/ThO | OECD 301C - MITI |

| | | | | | | |
|---|---|---|---|---|---|---|
| Methylenebis[6-tert-butyl-p-cresol] | | Biodegradation | | | D | test (I) |
| Cumene | 98-82-8 | Experimental Biodegradation | 14 days | BOD | 33 %BOD/ThOD | OECD 301C - MITI test (I) |
| Cumene | 98-82-8 | Experimental Photolysis | | Photolytic half-life (in air) | 4.5 days (t 1/2) | |

**12.3 : Bioaccumulative potential**

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Phenoxyethyl Methacrylate | 10595-06-9 | Modeled Bioconcentration | | Bioaccumulation factor | 5.8 | Catalogic™ |
| Phenoxyethyl Methacrylate | 10595-06-9 | Experimental Bioconcentration | | Log Kow | 3.137 | OECD 117 log Kow HPLC method |
| 2-Hydroxyethyl Methacrylate | 868-77-9 | Experimental Bioconcentration | | Log Kow | 0.42 | OECD 107 log Kow shke flsk mtd |
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Bioconcentration | | Log Kow | 0.97 | EC A.8 Partition Coefficient |
| Acrylate oligomer | 41637-38-1 | Estimated Bioconcentration | | Bioaccumulation factor | 6.6 | |
| Acrylate oligomer | 41637-38-1 | Experimental Bioconcentration | | Log Kow | ≥4.66 | OECD 117 log Kow HPLC method |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| α,α-Dimethylbenzyl hydroperoxide | 80-15-9 | Experimental Bioconcentration | | Log Kow | 1.82 | |
| 2,2'-Methylenebis[6-tert-butyl-p-cresol] | 119-47-1 | Experimental BCF - Fish | 60 days | Bioaccumulation factor | 840 | OECD305-Bioconcentration |
| Cumene | 98-82-8 | Modeled Bioconcentration | | Bioaccumulation factor | 140 | Catalogic™ |
| Cumene | 98-82-8 | Experimental Bioconcentration | | Log Kow | 3.55 | OECD 107 log Kow shke flsk mtd |

**12.4. Mobility in soil**
Please contact manufacturer for more details

**12.5 Other adverse effects**
No information available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**
In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

## SECTION 14: Transport Information

**New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**
**UN No.:** UN3082
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Acrylate Monomer, Cumene Hydroperoxide )
**Class/Division:** 9
**Sub Risk:** Not applicable.
**Packing Group:** III
**Special Instructions:** Not restricted, environmentally hazardous substance exception.
**Hazchem Code:** 3Z
**IERG:** 47

**International Air Transport Association (IATA) - Air Transport**
**UN No.:** UN3082
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Acrylate Monomer, Cumene Hydroperoxide )
**Class/Division:** 9
**Sub Risk:** Not applicable.
**Packing Group:** III
**Special Instructions:** Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**
**UN No.:** UN3082
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , ( Acrylate Monomer, Cumene Hydroperoxide )
**Class/Division:** 9
**Sub Risk:** Not applicable.
**Packing Group:** III
**Marine Pollutant:** Acrylate Monomer, Cumene hydroperoxide
**Special Instructions:** Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

## SECTION 15: Regulatory information

| | |
|---|---|
| HSNO Approval number | HSR002679 |
| Group standard name | Surface Coatings and Colourants (Carcinogenic) Group Standard 2020 |
| HSNO Hazard classification | Refer to Section 2: Hazard identification |

**NZ Inventory of Chemicals (NZIoC) Status**
All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

**Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017**

| | |
|---|---|
| Certified handler | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for all other substances) |
| Secondary containment | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for all other substances) |
| Tracking | Not required |
| Warning signage | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances) |

## SECTION 16: Other information

**Revision information:**
Complete document review.

| | | | |
|---|---|---|---|
| **Document group:** | 08-6252-4 | **Version number:** | 5.00 |
| **Issue Date:** | 31/01/2023 | **Supersedes date:** | 08/10/2018 |

**Key to abbreviations and acronyms**
**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017
**HSNO** means Hazardous Substances and New Organisms Act 1996

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