



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier

3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP810NS Tan and Low Odor Acrylic Adhesive 810NS Tan, Part B

Product Identification Numbers

62-2799-8730-9

1.2. Recommended use and restrictions on use

Recommended use

Structural adhesive

1.3. Supplier's details

ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor
Telephone: 03-7884 2888
E Mail: 3mmyehsr@mmm.com
Website: www.3M.com.my

1.4. Emergency telephone number

+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 1.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark | Environment |

3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP810NS Tan and Low Odor Acrylic Adhesive 810NS Tan, Part B

Pictograms



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

General:

| | |
|------|---|
| P102 | Keep out of reach of children. |
| P101 | If medical advice is needed, have product container or label at hand. |

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. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P310 | Immediately call a POISON CENTER 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. |
|------|--|

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt |
|--|------------|---------|
| 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 |
| Methyl Methacrylate- Butadiene-Styrene Polymer | 25101-28-4 | 5 - 20 |
| Modified Silica | 68611-44-9 | 1 - 10 |
| 2-Hydroxyethyl Methacrylate Phopshate | 52628-03-2 | < 4 |
| 4-Methoxyphenol | 150-76-5 | < 1 |
| 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.

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. 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

Carbon monoxide
Carbon dioxide
Hydrogen Chloride
Oxides of Nitrogen
Toxic Vapor, Gas, Particulate

Condition

During Combustion
During Combustion
During Combustion
During Combustion
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.

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 dikes 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 authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Avoid breathing dust/fume/gas/mist/vapors/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.

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 | C.A.S. No. | Agency | Limit type | Additional Comments |
|-----------------|------------|---------------|----------------------------------|--------------------------------|
| 4-Methoxyphenol | 150-76-5 | ACGIH | TWA:5 mg/m ³ | |
| 4-Methoxyphenol | 150-76-5 | Malaysia OELs | TWA(8 hours):5 mg/m ³ | |
| Phenothiazine | 92-84-2 | ACGIH | TWA:5 mg/m ³ | Danger of cutaneous absorption |
| Phenothiazine | 92-84-2 | Malaysia OELs | TWA(8 hours):5 mg/m ³ | SKIN |

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

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/vapors/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

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.

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

| | |
|--|--|
| Physical state | Liquid |
| Specific Physical Form: | Paste |
| Color | Green |
| Odor | Methacrylate |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point/Freezing point | <i>Not Applicable</i> |
| Boiling point/Initial boiling point/Boiling range | 87 °C |
| Flash Point | > 93.3 °C [Test Method: Closed Cup] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | ≤13.3 Pa |
| Vapor Density | <i>No Data Available</i> |
| Density | 1.07 g/ml |
| 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> |
| Autoignition temperature | <i>No Data Available</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity | 90,000 mPa-s |
| Molecular weight | <i>No Data Available</i> |
| 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 [Details: as supplied] |

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 polymerization 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 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 labeling, 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.

Photosensitization: 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:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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 >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 |
| Methyl Methacrylate- Butadiene-Styrene Polymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Hydroxypropyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydroxypropyl Methacrylate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Methyl Methacrylate- Butadiene-Styrene Polymer | Ingestion | Rat | LD50 > 5,000 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 |
| ACRYLATE OLIGOMER | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| ACRYLATE OLIGOMER | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Modified Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Modified Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Modified Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| 2-Hydroxyethyl Methacrylate Phosphate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 4-Methoxyphenol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 4-Methoxyphenol | 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-HYDROXYETHYL METHACRYLATE | Rabbit | Minimal irritation |
| PHENOXYETHYL METHACRYLATE | similar compounds | Irritant |
| Hydroxypropyl Methacrylate | Rabbit | Minimal irritation |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Modified Silica | Rabbit | No significant irritation |
| 2-Hydroxyethyl Methacrylate Phosphate | Rabbit | Corrosive |
| 4-Methoxyphenol | Rabbit | Mild irritant |
| Phenothiazine | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------|------------------|-------------------|
| 2-HYDROXYETHYL METHACRYLATE | Rabbit | Moderate irritant |
| PHENOXYETHYL METHACRYLATE | similar compound | Severe irritant |

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| | | |
|---------------------------------------|------------------------|---------------------------|
| | ds | |
| Hydroxypropyl Methacrylate | Rabbit | Moderate irritant |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Modified Silica | Rabbit | No significant irritation |
| 2-Hydroxyethyl Methacrylate Phosphate | similar health hazards | Corrosive |
| 4-Methoxyphenol | Rabbit | Severe irritant |
| Phenothiazine | Rabbit | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|---------------------------------------|------------------|----------------|
| 2-HYDROXYETHYL METHACRYLATE | Human and animal | Sensitizing |
| Hydroxypropyl Methacrylate | Human and animal | Sensitizing |
| ACRYLATE OLIGOMER | Guinea pig | Not classified |
| Modified Silica | Human and animal | Not classified |
| 2-Hydroxyethyl Methacrylate Phosphate | Mouse | Sensitizing |
| 4-Methoxyphenol | Guinea pig | Sensitizing |
| Phenothiazine | Guinea pig | Sensitizing |

Photosensitization

| Name | Species | Value |
|---------------|---------|-------------|
| Phenothiazine | Human | Sensitizing |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---------------------------------------|----------|--|
| 2-HYDROXYETHYL METHACRYLATE | In vivo | Not mutagenic |
| 2-HYDROXYETHYL METHACRYLATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| PHENOXYETHYL METHACRYLATE | In Vitro | Not mutagenic |
| 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 |
| Modified Silica | In Vitro | Not mutagenic |
| 2-Hydroxyethyl Methacrylate Phosphate | In Vitro | Not mutagenic |
| 4-Methoxyphenol | In vivo | Not mutagenic |
| 4-Methoxyphenol | 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 |
|-----------------|-------|---------|--|
| Modified Silica | Not | Mouse | Some positive data exist, but the data are not |

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| | | | |
|-----------------|-----------|-------------------------|--|
| | Specified | | sufficient for classification |
| 4-Methoxyphenol | Dermal | Multiple animal species | Not carcinogenic |
| 4-Methoxyphenol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---------------------------------------|-----------|--|---------|-----------------------|--------------------------------|
| 2-HYDROXYETHYL METHACRYLATE | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & 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 | prematuring & during gestation |
| Hydroxypropyl Methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring 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 |
| Modified Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Modified Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Modified Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| 2-Hydroxyethyl Methacrylate Phosphate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| 4-Methoxyphenol | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | prematuring into lactation |
| 4-Methoxyphenol | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | 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 |
|---------------------------------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| Hydroxypropyl 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 | |
| 4-Methoxyphenol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

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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 |
| Modified Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 2-Hydroxyethyl Methacrylate Phopshate | Ingestion | hematopoietic system kidney and/or bladder heart liver immune system eyes | Not classified | Rat | NOAEL 300 mg/kg/day | 90 days |
| 4-Methoxyphenol | Ingestion | gastrointestinal tract | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | liver immune system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| 4-Methoxyphenol | 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 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 labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 2: Toxic to aquatic life with long lasting effects

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No product test data available

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|-----------------------------|------------|----------------|--------------|----------|--------------------------|-------------|
| PHENOXYETHYL METHACRYLATE | 10595-06-9 | Golden Orfe | Experimental | 96 hours | Lethal Concentration 50% | 10 mg/l |
| PHENOXYETHYL METHACRYLATE | 10595-06-9 | Green algae | Experimental | 96 hours | Effect Concentration 50% | 4.1 mg/l |
| PHENOXYETHYL METHACRYLATE | 10595-06-9 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 1.21 mg/l |
| 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 | Lethal Concentration 50% | 227 mg/l |
| 2-HYDROXYETHYL METHACRYLATE | 868-77-9 | Green algae | Experimental | 72 hours | Effect Concentration 50% | 710 mg/l |
| 2-HYDROXYETHYL METHACRYLATE | 868-77-9 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 380 mg/l |
| 2-HYDROXYETHYL METHACRYLATE | 868-77-9 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 160 mg/l |
| 2-HYDROXYETHYL METHACRYLATE | 868-77-9 | Water flea | Experimental | 21 days | No obs Effect Conc | 24.1 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Golden Orfe | Experimental | 48 hours | Effect Concentration 50% | 493 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | >97.2 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Water flea | Experimental | 48 hours | Effect Concentration 50% | >143 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 97.2 mg/l |

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| | | | | | | |
|---|------------|---------------|---|----------|--------------------------|------------|
| Hydroxypropyl Methacrylate | 27813-02-1 | Water flea | Experimental | 21 days | No obs Effect Conc | 45.2 mg/l |
| ACRYLATE OLIGOMER | 41637-38-1 | Green algae | Endpoint not reached | 72 hours | Effect Concentration 50% | >100 mg/l |
| ACRYLATE OLIGOMER | 41637-38-1 | Green algae | Experimental | 72 hours | No obs Effect Conc | 0.05 mg/l |
| Acrylonitrile-Butadiene Polymer | 9010-81-5 | | Data not available or insufficient for classification | | | |
| Methyl Methacrylate-Butadiene-Styrene Polymer | 25101-28-4 | | Data not available or insufficient for classification | | | |
| Modified Silica | 68611-44-9 | | Data not available or insufficient for classification | | | |
| 2-Hydroxyethyl Methacrylate Phopshate | 52628-03-2 | | Data not available or insufficient for classification | | | |
| 4-Methoxyphenol | 150-76-5 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | 54.7 mg/l |
| 4-Methoxyphenol | 150-76-5 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 28.5 mg/l |
| 4-Methoxyphenol | 150-76-5 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 2.2 mg/l |
| 4-Methoxyphenol | 150-76-5 | Green Algae | Experimental | 72 hours | No obs Effect Conc | 2.96 mg/l |
| 4-Methoxyphenol | 150-76-5 | Water flea | Experimental | 21 days | No obs Effect Conc | 0.68 mg/l |
| Phenothiazine | 92-84-2 | Green Algae | Experimental | 72 hours | Effect Concentration 50% | >100 mg/l |
| Phenothiazine | 92-84-2 | Rainbow Trout | Experimental | 96 hours | Lethal Concentration 50% | 0.597 mg/l |
| Phenothiazine | 92-84-2 | Water flea | Experimental | 48 hours | Effect Concentration 50% | 0.154 mg/l |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|-----------------------------|------------|-----------------------------|----------|--------------------------|------------------|--------------------------------|
| PHENOXYET HYL METHACRYL ATE | 10595-06-9 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 22.3 % BOD/ThBOD | OECD 301D - Closed Bottle Test |
| 2- | 868-77-9 | Experimental | 14 days | Biological | 95 % | OECD 301C - MITI (I) |

3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP810NS Tan and Low Odor Acrylic Adhesive 810NS Tan, Part B

| | | | | | | |
|---|------------|--------------------------------------|---------|--------------------------------|-------------------|-----------------------------------|
| HYDROXYET HYL METHACRYL ATE | | Biodegradation | | Oxygen Demand | BOD/ThBOD | |
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 81 % BOD/ThBOD | OECD 301C - MITI (I) |
| ACRYLATE OLIGOMER | 41637-38-1 | Estimated Biodegradation | 28 days | Carbon dioxide evolution | 7-12 % weight | OECD 301B - Mod. Sturm or CO2 |
| Acrylonitrile- Butadiene Polymer | 9010-81-5 | Data not availbl- insufficient | | | N/A | |
| Methyl Methacrylate- Butadiene- Styrene Polymer | 25101-28-4 | Data not availbl- insufficient | | | N/A | |
| Modified Silica | 68611-44-9 | Data not availbl- insufficient | | | n/a | |
| 2- Hydroxyethyl Methacrylate Phopshate | 52628-03-2 | Data not availbl- insufficient | | | N/A | |
| 4- Methoxyphenol | 150-76-5 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 86 % BOD/ThBOD | OECD 301C - MITI (I) |
| Phenothiazine | 92-84-2 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 0 % BOD/ThBOD | OECD 301D - Closed Bottle Test |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|--|------------|--|----------|--------------------------------------|-------------|---------------------------------|
| PHENOXYET HYL METHACRYL ATE | 10595-06-9 | Estimated Bioconcentrati on | | Bioaccumulatio n Factor | 5.8 | Est: Bioconcentration factor |
| 2- HYDROXYET HYL METHACRYL ATE | 868-77-9 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 0.42 | Other methods |
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 0.97 | Other methods |
| ACRYLATE OLIGOMER | 41637-38-1 | Estimated Bioconcentrati on | | Bioaccumulatio n Factor | 6.6 | Est: Bioconcentration factor |
| Acrylonitrile- Butadiene Polymer | 9010-81-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Methyl Methacrylate- | 25101-28-4 | Data not available or | N/A | N/A | N/A | N/A |

3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP810NS Tan and Low Odor Acrylic Adhesive 810NS Tan, Part B

| | | | | | | |
|---------------------------------------|------------|---|---------|---|------|---------------|
| Butadiene-Styrene Polymer | | insufficient for classification | | | | |
| Modified Silica | 68611-44-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-Hydroxyethyl Methacrylate Phosphate | 52628-03-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 4-Methoxyphenol | 150-76-5 | Experimental Bioconcentration | | Log of Octanol/H ₂ O part. coeff | 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 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Marine Transport (IMDG)

UN Number:UN3082

Proper Shipping Name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name:None assigned.

Hazard Class/Division:9

Subsidiary Risk:None assigned.

Packing Group:III

Limited Quantity:None assigned.

Marine Pollutant: Yes

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number:UN3082

Proper Shipping Name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical Name:None assigned.

Hazard Class/Division:9

3M™ Scotch-Weld™ Low Odor Acrylic Adhesive DP810NS Tan and Low Odor Acrylic Adhesive 810NS Tan, Part B

Subsidiary Risk:None assigned.

Packing Group:III

Limited Quantity:None assigned.

Marine Pollutant: Yes

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

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.

SECTION 16: Other information

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 Malaysia SDSs are available at www.3M.com.my