



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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| <b>Issue Date:</b>     | 27/03/2025 | <b>Supersedes Date:</b> | 19/03/2020 |

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.

## IDENTIFICATION

### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Low Odor Acrylic Adhesive DP8805NS Green

#### Product Identification Numbers

62-2852-1446-6      62-2852-1451-6      62-2852-3631-1

### 1.2. Recommended use and restrictions on use

#### Recommended use

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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:**

35-1592-1, 35-1588-9

## TRANSPORT INFORMATION

This product is a kit that consists of two or more different regulated materials packed in the same outer packaging (ship unit). The transportation classifications of the individual components appear in Section 14 of the attached SDSs.

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.

DISCLAIMER: The information in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

**3M Malaysia SDSs are available at [www.3M.com.my](http://www.3M.com.my)**



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**Document Group:** 35-1588-9  
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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 DP8805NS and Low Odor Acrylic Adhesive 8805NS Green, Part B

#### Product Identification Numbers

62-2852-8531-8      62-2852-9531-7

#### 1.2. Recommended use and restrictions on use

##### Recommended use

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 2.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

Chronic Aquatic Toxicity: Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

## Pictograms



## Hazard Statements:

|      |                                                    |
|------|----------------------------------------------------|
| H319 | Causes serious eye irritation.                     |
| H317 | May cause an allergic skin reaction.               |
| H360 | May damage fertility or the unborn child.          |
| H412 | Harmful to aquatic life with long lasting effects. |

## Precautionary statements

### Prevention:

|       |                                                |
|-------|------------------------------------------------|
| P201  | Obtain special instructions before use.        |
| P280E | Wear protective gloves.                        |
| P281  | Use personal protective equipment as required. |

### 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. |
| P308 + P313        | IF exposed or concerned: Get medical attention.                                                                                  |
| P333 + P313        | If skin irritation or rash occurs: Get medical attention.                                                                        |

### Disposal:

|      |                                                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents and container in accordance with applicable local, regional, national, and 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  |
|------------------------------------------------------------------|------------|----------|
| Tetrahydrofurfuryl Methacrylate                                  | 2455-24-5  | 20 - 40  |
| Kaolin                                                           | 1332-58-7  | 1 - 20   |
| Butadiene-Acrylonitrile Polymer                                  | 9003-18-3  | 1 - 20   |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | 1 - 20   |
| Isobornyl Methacrylate                                           | 7534-94-3  | 1 - 15   |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | 0.1 - 10 |
| Phosphate Esters of PPG Methacrylate                             | 95175-93-2 | < 3      |
| Tetrahydrofurfuryl alcohol                                       | 97-99-4    | < 0.3    |
| Copper Naphthenates                                              | 1338-02-9  | < 0.1    |

## 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. Remove contact lenses if easy to do. Continue rinsing. 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**

Allergic skin reaction (redness, swelling, blistering, and itching).

**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**

None inherent in this product.

**Hazardous Decomposition or By-Products**

**Substance**

Carbon monoxide  
Carbon dioxide  
Hydrogen Chloride  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion

**5.3. 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**

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

**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**

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 handle until all safety precautions have been read and understood. Do not breathe 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. 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            |
|------------------|------------|---------------|------------------------------------------------------------|--------------------------------|
| Kaolin           | 1332-58-7  | ACGIH         | TWA(respirable fraction):2 mg/m3                           | A4: Not class. as human carcin |
| Kaolin           | 1332-58-7  | Malaysia OELs | TWA (proposed)(respirable fraction)(8 hours):2 mg/m3       |                                |
| COPPER COMPOUNDS | 1338-02-9  | ACGIH         | TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or mist):1 mg/m3 |                                |

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:

Safety Glasses with side shields  
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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - 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

|                                                          |                                     |
|----------------------------------------------------------|-------------------------------------|
| <b>Physical state</b>                                    | Liquid                              |
| <b>Specific Physical Form:</b>                           | Paste                               |
| <b>Color</b>                                             | White                               |
| <b>Odor</b>                                              | Mild Acrylate                       |
| <b>Odor threshold</b>                                    | No Data Available                   |
| <b>pH</b>                                                | Not Applicable                      |
| <b>Melting point/Freezing point</b>                      | Not Applicable                      |
| <b>Boiling point/Initial boiling point/Boiling range</b> | > 93.3 °C                           |
| <b>Flash Point</b>                                       | > 93.3 °C [Test Method: Closed Cup] |
| <b>Evaporation rate</b>                                  | No Data Available                   |
| <b>Flammability</b>                                      | Not Applicable                      |
| <b>Flammable Limits(LEL)</b>                             | No Data Available                   |
| <b>Flammable Limits(UEL)</b>                             | No Data Available                   |
| <b>Vapor Pressure</b>                                    | No Data Available                   |
| <b>Relative Vapor Density</b>                            | No Data Available                   |
| <b>Density</b>                                           | 1.13 g/ml                           |
| <b>Relative Density</b>                                  | 1.13 [Ref Std: WATER=1]             |
| <b>Water solubility</b>                                  | Nil                                 |
| <b>Solubility- non-water</b>                             | No Data Available                   |
| <b>Partition coefficient: n-octanol/ water</b>           | No Data Available                   |
| <b>Autoignition temperature</b>                          | No Data Available                   |
| <b>Decomposition temperature</b>                         | No Data Available                   |
| <b>Kinematic Viscosity</b>                               | 110,619 mm <sup>2</sup> /sec        |
| <b>Volatile Organic Compounds</b>                        | No Data Available                   |
| <b>Percent volatile</b>                                  | No Data Available                   |

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| VOC Less H2O & Exempt Solvents | 4.8 g/l [ <i>Details:when used as intended with Part A</i> ] |
| VOC Less H2O & Exempt Solvents | 612 g/l [ <i>Details:as supplied</i> ]                       |
| VOC Less H2O & Exempt Solvents | 0.5 % [ <i>Details:when used as intended with Part A</i> ]   |
| Molecular weight               | <i>Not Applicable</i>                                        |

|                          |                       |
|--------------------------|-----------------------|
| Particle Characteristics | <i>Not Applicable</i> |
|--------------------------|-----------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

Sparks and/or flames

### 10.5. Incompatible materials

Amines

Strong acids

Strong bases

Strong oxidizing agents

### 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 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.

May cause additional health effects (see below).



### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May cause additional health effects (see below).

### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

### Ingestion:

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

May cause additional health effects (see below).

### Additional Health Effects:

### Reproductive/Developmental Toxicity:

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

### 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 |
| Tetrahydrofurfuryl Methacrylate                                  | Ingestion                  | Rat                    | LD50 4,000 mg/kg                               |
| Tetrahydrofurfuryl Methacrylate                                  | Dermal                     | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Hydroxyethyl Methacrylate                                        | Dermal                     | Rabbit                 | LD50 > 5,000 mg/kg                             |
| Hydroxyethyl Methacrylate                                        | Ingestion                  | Rat                    | LD50 5,564 mg/kg                               |
| Butadiene-Acrylonitrile Polymer                                  | Dermal                     | Rabbit                 | LD50 > 15,000 mg/kg                            |
| Butadiene-Acrylonitrile Polymer                                  | Ingestion                  | Rat                    | LD50 > 30,000 mg/kg                            |
| Isobornyl Methacrylate                                           | Dermal                     | Rabbit                 | LD50 > 3,000 mg/kg                             |
| Isobornyl Methacrylate                                           | Ingestion                  | Rat                    | LD50 3,100 mg/kg                               |
| Kaolin                                                           | Dermal                     |                        | LD50 estimated to be > 5,000 mg/kg             |
| Kaolin                                                           | Ingestion                  | Human                  | LD50 > 15,000 mg/kg                            |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Dermal                     | Rat                    | LD50 > 2,000 mg/kg                             |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Ingestion                  | Rat                    | LD50 > 35,000 mg/kg                            |
| Phosphate Esters of PPG Methacrylate                             | Ingestion                  | Rat                    | LD50 > 5,000 mg/kg                             |
| Phosphate Esters of PPG Methacrylate                             | Dermal                     | similar health hazards | LD50 estimated to be > 5,000 mg/kg             |
| Tetrahydrofurfuryl alcohol                                       | Dermal                     | Professional judgment  | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Tetrahydrofurfuryl alcohol                                       | Inhalation-Vapor (4 hours) | Rat                    | LC50 > 3.1 mg/l                                |
| Tetrahydrofurfuryl alcohol                                       | Ingestion                  | Rat                    | LD50 > 2,000 mg/kg                             |
| Copper Naphthenates                                              | Dermal                     | similar compounds      | LD50 > 2,000 mg/kg                             |
| Copper Naphthenates                                              | Ingestion                  | similar compound       | LD50 >300, < 2,000 mg/kg                       |

|  |  |    |  |
|--|--|----|--|
|  |  | ds |  |
|--|--|----|--|

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                                             | Species                | Value                     |
|------------------------------------------------------------------|------------------------|---------------------------|
| Tetrahydrofurfuryl Methacrylate                                  | Rabbit                 | No significant irritation |
| Hydroxyethyl Methacrylate                                        | Rabbit                 | Minimal irritation        |
| Butadiene-Acrylonitrile Polymer                                  | Professional judgement | No significant irritation |
| Isobornyl Methacrylate                                           | Rabbit                 | Mild irritant             |
| Kaolin                                                           | Professional judgement | No significant irritation |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Rabbit                 | Minimal irritation        |
| Phosphate Esters of PPG Methacrylate                             | Not available          | Irritant                  |
| Tetrahydrofurfuryl alcohol                                       | Rabbit                 | No significant irritation |
| Copper Naphthenates                                              | Rabbit                 | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                                             | Species                | Value                     |
|------------------------------------------------------------------|------------------------|---------------------------|
| Tetrahydrofurfuryl Methacrylate                                  | Rabbit                 | No significant irritation |
| Hydroxyethyl Methacrylate                                        | Rabbit                 | Moderate irritant         |
| Butadiene-Acrylonitrile Polymer                                  | Professional judgement | No significant irritation |
| Isobornyl Methacrylate                                           | Rabbit                 | Mild irritant             |
| Kaolin                                                           | Professional judgement | No significant irritation |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Rabbit                 | No significant irritation |
| Phosphate Esters of PPG Methacrylate                             | Not available          | Corrosive                 |
| Tetrahydrofurfuryl alcohol                                       | Rabbit                 | Severe irritant           |
| Copper Naphthenates                                              | In vitro data          | No significant irritation |

### Sensitization:

#### Skin Sensitization

| Name                                                             | Species          | Value          |
|------------------------------------------------------------------|------------------|----------------|
| Tetrahydrofurfuryl Methacrylate                                  | In vitro data    | Sensitizing    |
| Hydroxyethyl Methacrylate                                        | Human and animal | Sensitizing    |
| Isobornyl Methacrylate                                           | Guinea pig       | Not classified |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Guinea pig       | Not classified |
| Tetrahydrofurfuryl alcohol                                       | Mouse            | Not classified |
| Copper Naphthenates                                              | Guinea pig       | Not classified |

#### 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                                                                        |
|------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Tetrahydrofurfuryl Methacrylate                                  | In Vitro | Not mutagenic                                                                |
| Hydroxyethyl Methacrylate                                        | In vivo  | Not mutagenic                                                                |
| Hydroxyethyl Methacrylate                                        | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Isobornyl Methacrylate                                           | In Vitro | Not mutagenic                                                                |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | In Vitro | Not mutagenic                                                                |
| Tetrahydrofurfuryl alcohol                                       | In Vitro | Not mutagenic                                                                |

### Carcinogenicity

| Name   | Route      | Species                 | Value            |
|--------|------------|-------------------------|------------------|
| Kaolin | Inhalation | Multiple animal species | Not carcinogenic |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                            | Route      | Value                                  | Species | Test Result           | Exposure Duration            |
|---------------------------------|------------|----------------------------------------|---------|-----------------------|------------------------------|
| Tetrahydrofurfuryl Methacrylate | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 300 mg/kg/day   | 29 days                      |
| Tetrahydrofurfuryl Methacrylate | Ingestion  | Toxic to female reproduction           | Rat     | NOAEL 120 mg/kg/day   | premating into lactation     |
| Tetrahydrofurfuryl Methacrylate | Ingestion  | Toxic to development                   | Rat     | NOAEL 120 mg/kg/day   | premating into lactation     |
| Hydroxyethyl Methacrylate       | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 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 | premating & during gestation |
| Isobornyl Methacrylate          | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 500 mg/kg/day   | premating into lactation     |
| Isobornyl Methacrylate          | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 500 mg/kg/day   | 4 weeks                      |
| Isobornyl Methacrylate          | Ingestion  | Not classified for development         | Rat     | NOAEL 500 mg/kg/day   | premating into lactation     |
| Tetrahydrofurfuryl alcohol      | Ingestion  | Toxic to female reproduction           | Rat     | NOAEL 50 mg/kg/day    | premating into lactation     |
| Tetrahydrofurfuryl alcohol      | Dermal     | Toxic to male reproduction             | Rat     | NOAEL 100 mg/kg/day   | 13 weeks                     |
| Tetrahydrofurfuryl alcohol      | Ingestion  | Toxic to male reproduction             | Rat     | NOAEL 150 mg/kg/day   | 47 days                      |
| Tetrahydrofurfuryl alcohol      | Inhalation | Toxic to male reproduction             | Rat     | NOAEL 0.6 mg/l        | 90 days                      |
| Tetrahydrofurfuryl alcohol      | Ingestion  | Toxic to development                   | Rat     | NOAEL 50 mg/kg/day    | premating into lactation     |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                   | Route      | Target Organ(s)        | Value                                                                        | Species                | Test Result         | Exposure Duration |
|------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-------------------|
| Isobornyl Methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

|                                      |            |                        |                                                                              |                        |                     |  |
|--------------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|--|
| Phosphate Esters of PPG Methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |  |
| Tetrahydrofurfuryl alcohol           | 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     |
|---------------------------------|------------|-----------------------------------------------------------------|------------------------------------------------------------------------------|---------|---------------------|-----------------------|
| Tetrahydrofurfuryl Methacrylate | Ingestion  | hematopoietic system   nervous system                           | Not classified                                                               | Rat     | NOAEL 300 mg/kg/day | 29 days               |
| Isobornyl Methacrylate          | Ingestion  | liver                                                           | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 150 mg/kg/day | 90 days               |
| Isobornyl Methacrylate          | Ingestion  | endocrine system   hematopoietic system   kidney and/or bladder | Not classified                                                               | Rat     | NOAEL 500 mg/kg/day | 90 days               |
| Kaolin                          | Inhalation | pneumoconiosis                                                  | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL NA            | occupational exposure |
| Kaolin                          | Inhalation | pulmonary fibrosis                                              | Not classified                                                               | Rat     | NOAEL Not available |                       |
| Tetrahydrofurfuryl alcohol      | Inhalation | nervous system                                                  | Causes damage to organs through prolonged or repeated exposure               | Rat     | LOAEL 0.2 mg/l      | 90 days               |
| Tetrahydrofurfuryl alcohol      | Inhalation | hematopoietic system                                            | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.6 mg/l      | 90 days               |
| Tetrahydrofurfuryl alcohol      | Inhalation | eyes                                                            | Not classified                                                               | Rat     | NOAEL 2.1 mg/l      | 90 days               |
| Tetrahydrofurfuryl alcohol      | Ingestion  | hematopoietic system                                            | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 69 mg/kg/day  | 91 days               |
| Tetrahydrofurfuryl alcohol      | Ingestion  | immune system                                                   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 150 mg/kg/day | 28 days               |
| Tetrahydrofurfuryl alcohol      | Ingestion  | endocrine system   kidney and/or bladder                        | Not classified                                                               | Rat     | NOAEL 600 mg/kg/day | 28 days               |
| Tetrahydrofurfuryl alcohol      | Ingestion  | liver   eyes                                                    | Not classified                                                               | Rat     | NOAEL 781 mg/kg/day | 91 days               |
| Tetrahydrofurfuryl alcohol      | Ingestion  | heart   nervous system                                          | Not classified                                                               | Rat     | NOAEL 600 mg/kg/day | 28 days               |

**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 3: Harmful to aquatic life.

**Chronic aquatic hazard:**

GHS Chronic 3: Harmful to aquatic life with long lasting effects

No product test data available

| Material                                                         | Cas #      | Organism         | Type                                                  | Exposure | Test Endpoint | Test Result                 |
|------------------------------------------------------------------|------------|------------------|-------------------------------------------------------|----------|---------------|-----------------------------|
| Tetrahydrofurfuryl Methacrylate                                  | 2455-24-5  | Fathead Minnow   | Experimental                                          | 96 hours | LC50          | 34.7 mg/l                   |
| Tetrahydrofurfuryl Methacrylate                                  | 2455-24-5  | Green algae      | Experimental                                          | 72 hours | ErC50         | >100 mg/l                   |
| Tetrahydrofurfuryl Methacrylate                                  | 2455-24-5  | Green algae      | Experimental                                          | 72 hours | ErC10         | 100 mg/l                    |
| Tetrahydrofurfuryl Methacrylate                                  | 2455-24-5  | Water flea       | Experimental                                          | 21 days  | NOEC          | 37.2 mg/l                   |
| Butadiene-Acrylonitrile Polymer                                  | 9003-18-3  | N/A              | Data not available or insufficient for classification | N/A      | N/A           | N/A                         |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Turbot           | Analogous Compound                                    | 96 hours | LC50          | 833 mg/l                    |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Fathead Minnow   | Experimental                                          | 96 hours | LC50          | 227 mg/l                    |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Green algae      | Experimental                                          | 72 hours | EC50          | 710 mg/l                    |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Water flea       | Experimental                                          | 48 hours | EC50          | 380 mg/l                    |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Green algae      | Experimental                                          | 72 hours | NOEC          | 160 mg/l                    |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Water flea       | Experimental                                          | 21 days  | NOEC          | 24.1 mg/l                   |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | N/A              | Experimental                                          | 16 hours | EC0           | >3,000 mg/l                 |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | N/A              | Experimental                                          | 18 hours | LD50          | <98 mg per kg of bodyweight |
| Kaolin                                                           | 1332-58-7  | Water flea       | Experimental                                          | 48 hours | LC50          | >1,100 mg/l                 |
| Isobornyl Methacrylate                                           | 7534-94-3  | Green algae      | Experimental                                          | 72 hours | EC50          | 2.3 mg/l                    |
| Isobornyl Methacrylate                                           | 7534-94-3  | Water flea       | Experimental                                          | 48 hours | EC50          | 1.1 mg/l                    |
| Isobornyl Methacrylate                                           | 7534-94-3  | Zebra Fish       | Experimental                                          | 96 hours | LC50          | 1.8 mg/l                    |
| Isobornyl Methacrylate                                           | 7534-94-3  | Green algae      | Experimental                                          | 72 hours | EC10          | 0.751 mg/l                  |
| Isobornyl Methacrylate                                           | 7534-94-3  | Water flea       | Experimental                                          | 21 days  | NOEC          | 0.233 mg/l                  |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Activated sludge | Estimated                                             | 3 hours  | EC50          | >1,000 mg/l                 |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Green algae      | Estimated                                             | 72 hours | EL50          | >100 mg/l                   |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Water flea       | Estimated                                             | 48 hours | EL50          | >100 mg/l                   |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Zebra Fish       | Estimated                                             | 96 hours | LL50          | >100 mg/l                   |
| Phosphate Esters of                                              | 95175-93-2 | N/A              | Data not available                                    | N/A      | N/A           | N/A                         |

|                            |           |                  |                                    |          |       |                        |
|----------------------------|-----------|------------------|------------------------------------|----------|-------|------------------------|
| PPG Methacrylate           |           |                  | or insufficient for classification |          |       |                        |
| Tetrahydrofurfuryl alcohol | 97-99-4   | Green algae      | Experimental                       | 72 hours | EC50  | >100 mg/l              |
| Tetrahydrofurfuryl alcohol | 97-99-4   | Medaka           | Experimental                       | 96 hours | LC50  | >100 mg/l              |
| Tetrahydrofurfuryl alcohol | 97-99-4   | Water flea       | Experimental                       | 48 hours | EC50  | >100 mg/l              |
| Tetrahydrofurfuryl alcohol | 97-99-4   | Green algae      | Experimental                       | 72 hours | NOEC  | >100 mg/l              |
| Tetrahydrofurfuryl alcohol | 97-99-4   | Water flea       | Experimental                       | 21 days  | NOEC  | >100 mg/l              |
| Copper Naphthenates        | 1338-02-9 | Green algae      | Estimated                          | 72 hours | ErC50 | 0.629 mg/l             |
| Copper Naphthenates        | 1338-02-9 | Water flea       | Estimated                          | 48 hours | EC50  | 0.0756 mg/l            |
| Copper Naphthenates        | 1338-02-9 | Zebra Fish       | Estimated                          | 96 hours | LC50  | 0.07 mg/l              |
| Copper Naphthenates        | 1338-02-9 | Fathead Minnow   | Estimated                          | 32 days  | EC10  | 0.0354 mg/l            |
| Copper Naphthenates        | 1338-02-9 | Green algae      | Estimated                          | N/A      | NOEC  | 0.132 mg/l             |
| Copper Naphthenates        | 1338-02-9 | Sediment Worm    | Estimated                          | 28 days  | NOEC  | 110 mg/kg (Dry Weight) |
| Copper Naphthenates        | 1338-02-9 | Water flea       | Estimated                          | 7 days   | NOEC  | 0.02 mg/l              |
| Copper Naphthenates        | 1338-02-9 | Activated sludge | Estimated                          | N/A      | EC50  | 42 mg/l                |
| Copper Naphthenates        | 1338-02-9 | Barley           | Estimated                          | 4 days   | NOEC  | 96 mg/kg (Dry Weight)  |
| Copper Naphthenates        | 1338-02-9 | Redworm          | Estimated                          | 56 days  | NOEC  | 60 mg/kg (Dry Weight)  |
| Copper Naphthenates        | 1338-02-9 | Soil microbes    | Estimated                          | 4 days   | NOEC  | 72 mg/kg (Dry Weight)  |
| Copper Naphthenates        | 1338-02-9 | Springtail       | Estimated                          | 28 days  | NOEC  | 167 mg/kg (Dry Weight) |

## 12.2. Persistence and degradability

| Material                                                         | CAS No.    | Test Type                         | Duration | Study Type                    | Test Result                       | Protocol                       |
|------------------------------------------------------------------|------------|-----------------------------------|----------|-------------------------------|-----------------------------------|--------------------------------|
| Tetrahydrofurfuryl Methacrylate                                  | 2455-24-5  | Experimental Biodegradation       | 28 days  | Biological Oxygen Demand      | 75 %BOD/ThOD (< 10 day window)    | OECD 301F - Manometric Respiro |
| Butadiene-Acrylonitrile Polymer                                  | 9003-18-3  | Data not available - insufficient | N/A      | N/A                           | N/A                               | N/A                            |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Experimental Biodegradation       | 28 days  | Biological Oxygen Demand      | 84 %BOD/COD                       | OECD 301D - Closed Bottle Test |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Experimental Hydrolysis           |          | Hydrolytic half-life basic pH | 10.9 days (t 1/2)                 | OECD 111 Hydrolysis func of pH |
| Kaolin                                                           | 1332-58-7  | Data not available - insufficient | N/A      | N/A                           | N/A                               | N/A                            |
| Isobornyl Methacrylate                                           | 7534-94-3  | Experimental Biodegradation       | 28 days  | Carbon dioxide evolution      | 70 %CO2 evolution/THCO2 evolution | OECD 310 CO2 Headspace         |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Experimental Biodegradation       | 28 days  | Percent degraded              | 24 %degraded                      |                                |
| Phosphate Esters of PPG Methacrylate                             | 95175-93-2 | Data not available - insufficient | N/A      | N/A                           | N/A                               | N/A                            |
| Tetrahydrofurfuryl alcohol                                       | 97-99-4    | Experimental Biodegradation       | 28 days  | Biological Oxygen Demand      | 92 %BOD/ThOD                      | OECD 301C - MITI (I)           |

|                            |           |                               |     |                             |                  |                                |
|----------------------------|-----------|-------------------------------|-----|-----------------------------|------------------|--------------------------------|
| Tetrahydrofurfuryl alcohol | 97-99-4   | Experimental Hydrolysis       |     | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | OECD 111 Hydrolysis func of pH |
| Copper Naphthenates        | 1338-02-9 | Data not availbl-insufficient | N/A | N/A                         | N/A              | N/A                            |

### 12.3. Bioaccumulative potential

| Material                                                         | CAS No.    | Test Type                                             | Duration | Study Type                     | Test Result | Protocol                       |
|------------------------------------------------------------------|------------|-------------------------------------------------------|----------|--------------------------------|-------------|--------------------------------|
| Tetrahydrofurfuryl Methacrylate                                  | 2455-24-5  | Experimental Bioconcentration                         |          | Log of Octanol/H2O part. coeff | 1.76        | OECD 117 log Kow HPLC method   |
| Butadiene-Acrylonitrile Polymer                                  | 9003-18-3  | Data not available or insufficient for classification | N/A      | N/A                            | N/A         | N/A                            |
| Hydroxyethyl Methacrylate                                        | 868-77-9   | Experimental Bioconcentration                         |          | Log of Octanol/H2O part. coeff | 0.42        | OECD 107 log Kow shke flsk mtd |
| Kaolin                                                           | 1332-58-7  | Data not available or insufficient for classification | N/A      | N/A                            | N/A         | N/A                            |
| Isobornyl Methacrylate                                           | 7534-94-3  | Modeled Bioconcentration                              |          | Bioaccumulation Factor         | 39          | Catalogic™                     |
| Isobornyl Methacrylate                                           | 7534-94-3  | Experimental Bioconcentration                         |          | Log of Octanol/H2O part. coeff | 5.09        | OECD 117 log Kow HPLC method   |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | 41637-38-1 | Estimated Bioconcentration                            |          | Bioaccumulation Factor         | 6.6         |                                |
| Phosphate Esters of PPG Methacrylate                             | 95175-93-2 | Data not available or insufficient for classification | N/A      | N/A                            | N/A         | N/A                            |
| Tetrahydrofurfuryl alcohol                                       | 97-99-4    | Experimental Bioconcentration                         |          | Log of Octanol/H2O part. coeff | -0.11       | OECD 107 log Kow shke flsk mtd |
| Copper Naphthenates                                              | 1338-02-9  | Analogous Compound BCF - Fish                         | 42 days  | Bioaccumulation Factor         | ≤27         | OECD305-Bioconcentration       |

### 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

Not hazardous for transportation.

### Marine Transport (IMDG)

**UN Number:**None assigned.

**Proper Shipping Name:**None assigned.  
**Technical Name:**None assigned.  
**Hazard Class/Division:**None assigned.  
**Subsidiary Risk:**None assigned.  
**Packing Group:**None assigned.  
**Limited Quantity:**None assigned.  
**Marine Pollutant:** None assigned.  
**Marine Pollutant Technical Name:** None assigned.  
**Other Dangerous Goods Descriptions:**  
None assigned.

#### **Air Transport (IATA)**

**UN Number:**None assigned.  
**Proper Shipping Name:**None assigned.  
**Technical Name:**None assigned.  
**Hazard Class/Division:**None assigned.  
**Subsidiary Risk:**None assigned.  
**Packing Group:**None assigned.  
**Limited Quantity:**None assigned.  
**Marine Pollutant:** None assigned.  
**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 Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. 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 in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.



**3M Malaysia SDSs are available at [www.3M.com.my](http://www.3M.com.my)**



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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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 DP8805NS Green, Part A

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Adhesive

#### 1.3. Supplier's details

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

Skin Sensitizer: Category 1.

Chronic Aquatic Toxicity: Category 3.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

##### Pictograms

**Hazard Statements:**

- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements****Prevention:**

- P280E Wear protective gloves.

**Response:**

- P333 + P313 If skin irritation or rash occurs: Get medical attention.

**Disposal:**

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

**2.3. Other hazards**

None known

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

| <b>Ingredient</b>   | <b>C.A.S. No.</b> | <b>% by Wt</b> |
|---------------------|-------------------|----------------|
| Dibenzoate Propanol | 27138-31-4        | 45 - 80        |
| Acrylate Polymer    | 25101-28-4        | 5 - 30         |
| Catalyst            | Trade Secret      | 1 - 20         |
| Organic Peroxide    | 13122-18-4        | 1 - 10         |

**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:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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**

Allergic skin reaction (redness, swelling, blistering, and itching).

#### 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

None inherent in this product.

### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Hydrocarbons     | During Combustion |
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | 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

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

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

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. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

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

**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**

None required.

**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. When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of nitrile rubber are recommended. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

**Respiratory protection**

None required.

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

|                                                          |                                     |
|----------------------------------------------------------|-------------------------------------|
| <b>Physical state</b>                                    | Liquid                              |
| <b>Specific Physical Form:</b>                           | Paste                               |
| <b>Color</b>                                             | Blue                                |
| <b>Odor</b>                                              | Mild Hydrocarbon                    |
| <b>Odor threshold</b>                                    | <i>No Data Available</i>            |
| <b>pH</b>                                                | <i>Not Applicable</i>               |
| <b>Melting point/Freezing point</b>                      | <i>Not Applicable</i>               |
| <b>Boiling point/Initial boiling point/Boiling range</b> | > 93.3 °C                           |
| <b>Flash Point</b>                                       | > 93.3 °C [Test Method: Closed Cup] |
| <b>Evaporation rate</b>                                  | <i>No Data Available</i>            |

|                                                      |                                                     |
|------------------------------------------------------|-----------------------------------------------------|
| <b>Flammability</b>                                  | Not Applicable                                      |
| <b>Flammable Limits(LEL)</b>                         | <i>No Data Available</i>                            |
| <b>Flammable Limits(UEL)</b>                         | <i>No Data Available</i>                            |
| <b>Vapor Pressure</b>                                | <i>No Data Available</i>                            |
| <b>Relative Vapor Density</b>                        | <i>No Data Available</i>                            |
| <b>Density</b>                                       | 1.08 g/ml                                           |
| <b>Relative Density</b>                              | 1.08 [Ref Std: WATER=1]                             |
| <b>Water solubility</b>                              | Nil                                                 |
| <b>Solubility- non-water</b>                         | <i>No Data Available</i>                            |
| <b>Partition coefficient: n-octanol/ water</b>       | <i>No Data Available</i>                            |
| <b>Autoignition temperature</b>                      | <i>No Data Available</i>                            |
| <b>Decomposition temperature</b>                     | <i>No Data Available</i>                            |
| <b>Kinematic Viscosity</b>                           | 18,519 mm <sup>2</sup> /sec                         |
| <b>Volatile Organic Compounds</b>                    | <i>No Data Available</i>                            |
| <b>Percent volatile</b>                              | <i>No Data Available</i>                            |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | 4.8 g/l [Details:when used as intended with Part B] |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | 0.5 % [Details:when used as intended with Part B]   |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | 59.4 g/l [Details:as supplied]                      |
| <b>Molecular weight</b>                              | <i>Not Applicable</i>                               |

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Particle Characteristics</b> | <i>Not Applicable</i> |
|---------------------------------|-----------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat  
Sparks and/or flames

### 10.5. Incompatible materials

Amines  
Strong acids  
Strong bases  
Strong oxidizing agents

### 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:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

##### Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

##### Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

##### Ingestion:

May be harmful if swallowed.

#### 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 |
| Dibenzoate Propanol | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                      |
| Dibenzoate Propanol | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 200 mg/l                                         |
| Dibenzoate Propanol | Ingestion                      | Rat                    | LD50 3,295 mg/kg                                        |
| Acrylate Polymer    | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg                      |
| Acrylate Polymer    | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                      |
| Catalyst            | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Catalyst            | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                                      |
| Organic Peroxide    | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                      |
| Organic Peroxide    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.8 mg/l                                         |
| Organic Peroxide    | Ingestion                      | Rat                    | LD50 12,905 mg/kg                                       |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                | Species | Value                     |
|---------------------|---------|---------------------------|
| Dibenzoate Propanol | Rabbit  | No significant irritation |
| Organic Peroxide    | Rabbit  | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                | Species | Value                     |
|---------------------|---------|---------------------------|
| Dibenzoate Propanol | Rabbit  | No significant irritation |
| Organic Peroxide    | Rabbit  | No significant irritation |

**Sensitization:**
**Skin Sensitization**

| Name                | Species    | Value          |
|---------------------|------------|----------------|
| Dibenzoate Propanol | Guinea pig | Not classified |
| Catalyst            | Mouse      | Not classified |
| Organic Peroxide    | Guinea pig | 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         |
|---------------------|----------|---------------|
| Dibenzoate Propanol | In Vitro | Not mutagenic |
| Catalyst            | In Vitro | 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 |
|---------------------|-----------|----------------------------------------|---------|-----------------------|-------------------|
| Dibenzoate Propanol | Ingestion | Not classified for female reproduction | Rat     | NOAEL 500 mg/kg/day   | 2 generation      |
| Dibenzoate Propanol | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 400 mg/kg/day   | 2 generation      |
| Dibenzoate Propanol | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | during gestation  |

**Target Organ(s)**
**Specific Target Organ Toxicity - single exposure**

| Name     | Route     | Target Organ(s) | Value          | Species | Test Result       | Exposure Duration |
|----------|-----------|-----------------|----------------|---------|-------------------|-------------------|
| Catalyst | Ingestion | nervous system  | Not classified | Rat     | NOAEL 2,000 mg/kg |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                | Route     | Target Organ(s)              | Value          | Species | Test Result           | Exposure Duration |
|---------------------|-----------|------------------------------|----------------|---------|-----------------------|-------------------|
| Dibenzoate Propanol | Ingestion | hematopoietic system   liver | Not classified | Rat     | NOAEL 2,500 mg/kg/day | 90 days           |

**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 3: Harmful to aquatic life with long lasting effects

No product test data available

| Material            | Cas #        | Organism         | Type                                                  | Exposure | Test Endpoint | Test Result |
|---------------------|--------------|------------------|-------------------------------------------------------|----------|---------------|-------------|
| Dibenzoate Propanol | 27138-31-4   | Fathead Minnow   | Experimental                                          | 96 hours | LC50          | 3.7 mg/l    |
| Dibenzoate Propanol | 27138-31-4   | Green algae      | Experimental                                          | 72 hours | EL50          | 4.9 mg/l    |
| Dibenzoate Propanol | 27138-31-4   | Water flea       | Experimental                                          | 48 hours | EL50          | 19.31 mg/l  |
| Dibenzoate Propanol | 27138-31-4   | Green algae      | Experimental                                          | 72 hours | EC10          | 0.89 mg/l   |
| Acrylate Polymer    | 25101-28-4   | N/A              | Data not available or insufficient for classification | N/A      | N/A           | N/A         |
| Catalyst            | Trade Secret | N/A              | Data not available or insufficient for classification | N/A      | N/A           | N/A         |
| Organic Peroxide    | 13122-18-4   | Green algae      | Experimental                                          | 72 hours | ErC50         | 0.51 mg/l   |
| Organic Peroxide    | 13122-18-4   | Rainbow Trout    | Experimental                                          | 96 hours | LC50          | 7.03 mg/l   |
| Organic Peroxide    | 13122-18-4   | Water flea       | Experimental                                          | 48 hours | EC50          | >100 mg/l   |
| Organic Peroxide    | 13122-18-4   | Green algae      | Experimental                                          | 72 hours | NOEC          | 0.125 mg/l  |
| Organic Peroxide    | 13122-18-4   | Water flea       | Experimental                                          | 21 days  | NOEC          | 0.22 mg/l   |
| Organic Peroxide    | 13122-18-4   | Activated sludge | Experimental                                          | 3 hours  | EC50          | 327.02 mg/l |

### 12.2. Persistence and degradability

| Material            | CAS No.      | Test Type                         | Duration | Study Type                    | Test Result                         | Protocol                       |
|---------------------|--------------|-----------------------------------|----------|-------------------------------|-------------------------------------|--------------------------------|
| Dibenzoate Propanol | 27138-31-4   | Experimental Biodegradation       | 28 days  | Carbon dioxide evolution      | 85 %CO2 evolution/THCO2 evolution   | OECD 301B - Mod. Sturm or CO2  |
| Acrylate Polymer    | 25101-28-4   | Data not available - insufficient | N/A      | N/A                           | N/A                                 | N/A                            |
| Catalyst            | Trade Secret | Experimental Biodegradation       | 28 days  | Carbon dioxide evolution      | 29.1 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2  |
| Catalyst            | Trade Secret | Estimated Photolysis              |          | Photolytic half-life (in air) | 1.48 days (t 1/2)                   |                                |
| Organic Peroxide    | 13122-18-4   | Experimental Biodegradation       | 28 days  | Biological Oxygen Demand      | 72 %BOD/ThOD                        | OECD 301D - Closed Bottle Test |
| Organic Peroxide    | 13122-18-4   | Experimental                      | 56 days  | Biological Oxygen             | 58 %BOD/ThOD                        | OECD 302A - Modified           |

|                  |            |                             |  |                             |                  |                                |
|------------------|------------|-----------------------------|--|-----------------------------|------------------|--------------------------------|
|                  |            | Aquatic Inherent Biodegrad. |  | Demand                      |                  | SCAS Test                      |
| Organic Peroxide | 13122-18-4 | Experimental Hydrolysis     |  | Hydrolytic half-life (pH 7) | 51 hours (t 1/2) | OECD 111 Hydrolysis func of pH |

### 12.3. Bioaccumulative potential

| Material            | CAS No.      | Test Type                                             | Duration | Study Type                     | Test Result | Protocol                     |
|---------------------|--------------|-------------------------------------------------------|----------|--------------------------------|-------------|------------------------------|
| Dibenzoate Propanol | 27138-31-4   | Modeled Bioconcentration                              |          | Bioaccumulation Factor         | 8           | Catalogic™                   |
| Acrylate Polymer    | 25101-28-4   | Data not available or insufficient for classification | N/A      | N/A                            | N/A         | N/A                          |
| Catalyst            | Trade Secret | Experimental Bioconcentration                         |          | Log of Octanol/H2O part. coeff | 2.57        |                              |
| Organic Peroxide    | 13122-18-4   | Modeled Bioconcentration                              |          | Bioaccumulation Factor         | 380         | Catalogic™                   |
| Organic Peroxide    | 13122-18-4   | Experimental Bioconcentration                         |          | Log of Octanol/H2O part. coeff | 5.16        | 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

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

Not hazardous for transportation.

### Marine Transport (IMDG)

**UN Number:**None assigned.

**Proper Shipping Name:**None assigned.

**Technical Name:**None assigned.

**Hazard Class/Division:**None assigned.

**Subsidiary Risk:**None assigned.

**Packing Group:**None assigned.

**Limited Quantity:**None assigned.

**Marine Pollutant:** None assigned.

**Marine Pollutant Technical Name:** None assigned.

**Other Dangerous Goods Descriptions:**

None assigned.

### Air Transport (IATA)

**UN Number:**None assigned.

**Proper Shipping Name:**None assigned.

**Technical Name:**None assigned.

**Hazard Class/Division:**None assigned.

**Subsidiary Risk:**None assigned.

**Packing Group:**None assigned.

**Limited Quantity:**None assigned.

**Marine Pollutant:** None assigned.

**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 product are in compliance with the new substance notification requirements of CEPA. 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 in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

**3M Malaysia SDSs are available at [www.3M.com.my](http://www.3M.com.my)**