



Safety Data Sheet

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|------------------------|------------|-------------------------|------------|
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| Issue Date: | 07/03/2023 | Supersedes Date: | 17/12/2019 |

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) Structural Plastic Adhesive DP8010 Blue

Product Identification Numbers

62-2863-1445-5 62-2863-1450-5 62-2863-3630-0 62-2863-5030-1

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

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:

31-9758-9, 18-1419-3

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



Safety Data Sheet

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| | | | |
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| Issue Date: | 05/01/2023 | Supersedes Date: | 15/04/2021 |

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(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 and Structural Plastic Adhesive 8010, Part A

Product Identification Numbers

62-2883-7530-6 62-2883-8530-5 FS-9100-5342-0

1.2. Recommended use and restrictions on use

Recommended use

Structural adhesive, Industrial use

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

Acute Toxicity (oral): Category 4.
Serious Eye Damage/Irritation: Category 1.
Respiratory Sensitizer: Category 1.
Skin Sensitizer: Category 1.
Germ Cell Mutagenicity: Category 2.
Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark | Health Hazard | Environment |

Pictograms



Hazard Statements:

- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.

- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273 Avoid release to the environment.
- P280B Wear protective gloves and eye/face protection.
- P281 Use personal protective equipment as required.
- P285 In case of inadequate ventilation wear respiratory protection.

Response:

- P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Disposal:

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

2.3. Other hazards

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt |
|---------------------------|--------------|---------|
| Synthetic Rubber Oligomer | Trade Secret | 40 - 70 |
| Polyfunctional Aziridine | 64265-57-2 | 10 - 30 |
| Amine Borane Complex | 223674-50-8 | 1 - 15 |
| Amorphous Silica | 67762-90-7 | 1 - 5 |

Any remaining components do not contribute to the hazards of this material.

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

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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> |
|-------------------------------|-------------------|
| Aldehydes | During Combustion |
| Amine Compounds | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Oxides of Nitrogen | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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 handle until all safety precautions have been read and understood. 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. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store away from acids.

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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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:

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: | Viscous Liquid |
| Color | Colorless |
| Odor | Mild Acrylic |
| 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 | ≥ 98.9 °C [<i>@ 101,325 Pa</i>] |
| Flash Point | 96.7 °C [<i>Test Method: Closed Cup</i>] [<i>Details: SPECIFIC METHOD: SETAFLASH ASTM D-3278-96</i>] |
| 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 [<i>@ 20 °C</i>] [<i>Details: MITS data</i>] |
| Vapor Density and/or Relative Vapor Density | <i>No Data Available</i> |
| Density | 1.063 g/ml [<i>@ 20 °C</i>] |
| Relative Density | 1.063 [<i>Ref Std: WATER=1</i>] |
| 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/Kinematic Viscosity | 25,000 - 35,000 mPa-s |
| Volatile Organic Compounds | 0 g/l |
| Percent volatile | 0 % [<i>Test Method: ACS METHOD</i>] |
| VOC Less H₂O & Exempt Solvents | 0 g/l [<i>Test Method: tested per EPA method 24</i>] |
| Molecular weight | <i>No Data Available</i> |

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong acids

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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

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.

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

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

Additional Health Effects:

Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

Additional Information:

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

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 | Ingestion | | No data available; calculated ATE >300 - =2,000 mg/kg |
| Polyfunctional Aziridine | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Polyfunctional Aziridine | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.252 mg/l |
| Polyfunctional Aziridine | Ingestion | Rat | LD50 3,038 mg/kg |
| Amine Borane Complex | Ingestion | Rat | LD50 693 mg/kg |
| Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Amorphous Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------|---------|---------------------------|
| Polyfunctional Aziridine | Rabbit | Mild irritant |
| Amine Borane Complex | Rabbit | No significant irritation |
| Amorphous Silica | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------|------------------------|---------------------------|
| Polyfunctional Aziridine | Rabbit | Corrosive |
| Amine Borane Complex | Professional judgement | Severe irritant |
| Amorphous Silica | Rabbit | No significant irritation |

Sensitization:

Skin Sensitization

| Name | Species | Value |
|--------------------------|------------------|----------------|
| Polyfunctional Aziridine | Human and animal | Sensitizing |
| Amine Borane Complex | Guinea pig | Sensitizing |
| Amorphous Silica | Human and animal | Not classified |

Respiratory Sensitization

| Name | Species | Value |
|--------------------------|---------|-------------|
| Polyfunctional Aziridine | Human | Sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------------------|----------|---------------|
| Polyfunctional Aziridine | In vivo | Mutagenic |
| Amine Borane Complex | In Vitro | Not mutagenic |
| Amorphous Silica | In Vitro | Not mutagenic |

Carcinogenicity

3M(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 and Structural Plastic Adhesive 8010, Part A

| Name | Route | Species | Value |
|------------------|---------------|---------|--|
| Amorphous Silica | Not Specified | Mouse | 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 |
|------------------|-----------|--|---------|-----------------------|----------------------|
| Amorphous Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 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 |
|--------------------------|------------|------------------------|--|---------|---------------------|-------------------|
| Polyfunctional Aziridine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 4 hours |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------------------|------------|--------------------------------|----------------|---------|---------------------|-----------------------|
| Amorphous Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |

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

No product test data available

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|---------------------------|--------------|----------|--|----------|---------------|-------------|
| Synthetic Rubber Oligomer | Trade Secret | N/A | Data not available or insufficient for | N/A | N/A | N/A |

3M(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 and Structural Plastic Adhesive 8010, Part A

| | | | classification | | | |
|--------------------------|-------------|-------------------------------|---|----------|------|-----------|
| Polyfunctional Aziridine | 64265-57-2 | Algae or other aquatic plants | Experimental | 72 hours | EC50 | 3.8 mg/l |
| Polyfunctional Aziridine | 64265-57-2 | Fish | Experimental | 96 hours | LC50 | 2.35 mg/l |
| Polyfunctional Aziridine | 64265-57-2 | Invertebrate | Experimental | 48 hours | EC50 | 6.96 mg/l |
| Amine Borane Complex | 223674-50-8 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Amorphous Silica | 67762-90-7 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---------------------------|--------------|------------------------------------|----------|--------------------------|--|---|
| Synthetic Rubber Oligomer | Trade Secret | Data not available or insufficient | N/A | N/A | N/A | N/A |
| Polyfunctional Aziridine | 64265-57-2 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | <60 %CO ₂ evolution/THCO ₂ evolution | OECD 301B - Mod. Sturm or CO ₂ |
| Amine Borane Complex | 223674-50-8 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 44 %CO ₂ evolution/THCO ₂ evolution | EC C.4.C. CO ₂ Evolution Test |
| Amorphous Silica | 67762-90-7 | Data not available or insufficient | N/A | N/A | N/A | N/A |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|---------------------------|--------------|---|----------|---|-------------|------------------------------|
| Synthetic Rubber Oligomer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Polyfunctional Aziridine | 64265-57-2 | Modeled Bioconcentration | | Log of Octanol/H ₂ O part. coeff | 0.5 | ACD/Labs ChemSketch™ |
| Amine Borane Complex | 223674-50-8 | Experimental Bioconcentration | | Log of Octanol/H ₂ O part. coeff | >5.99 | EC A.8 Partition Coefficient |
| Amorphous Silica | 67762-90-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC 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



Safety Data Sheet

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| Document Group: | 31-9758-9 | Version Number: | 3.00 |
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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(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 Blue and Structural Plastic Adhesive 8010 Blue, Part B

Product Identification Numbers

62-2863-8530-7

1.2. Recommended use and restrictions on use

Recommended use

Structural adhesive, Industrial use

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 Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Corrosion |Exclamation mark |Health Hazard |

Pictograms



Hazard Statements:

H318 Causes serious eye damage.
 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.
 P280B Wear protective gloves and eye/face protection.
 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.
 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 |
|---------------------------------|--------------|---------|
| Tetrahydrofurfuryl Methacrylate | 2455-24-5 | 30 - 60 |
| Acrylate Polymer | Trade Secret | 10 - 30 |
| 2-Ethylhexyl Methacrylate | 688-84-6 | 10 - 24 |
| Impact Modifier | 20882-04-6 | 1 - 9 |
| Dibutyl Itaconate | 2155-60-4 | 0.1 - 5 |
| Glass Microspheres | Trade Secret | 0.1 - 5 |
| Copper Naphthenates | 1338-02-9 | < 1 |
| Succinic Anhydride | 108-30-5 | < 0.6 |
| Tetrahydrofurfuryl Alcohol | 97-99-4 | < 0.25 |
| Methyl Methacrylate | 80-62-6 | < 0.2 |
| Styrene Monomer | 100-42-5 | < 0.2 |
| Maleic Anhydride | 108-31-6 | < 0.002 |

Any remaining components do not contribute to the hazards of this material.

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

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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 |
| Hydrogen Cyanide | During Combustion |
| Oxides of Nitrogen | 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

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. 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.

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 |
|---------------------|------------|---------------|--|---|
| Styrene Monomer | 100-42-5 | ACGIH | TWA:10 ppm;STEL:20 ppm | A3: Confirmed animal carcin., Ototoxicant |
| Styrene Monomer | 100-42-5 | Malaysia OELs | TWA(8 hours):85.2 mg/m3(20 ppm) | SKIN |
| Maleic Anhydride | 108-31-6 | ACGIH | TWA(inhalable fraction and vapor):0.01 mg/m3 | A4: Not class. as human carcin, Dermal/Respiratory Sensitizer |
| Maleic Anhydride | 108-31-6 | Malaysia OELs | TWA(8 hours):1 mg/m3(0.25 ppm) | |
| COPPER COMPOUNDS | 1338-02-9 | ACGIH | TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or mist):1 mg/m3 | |
| Methyl Methacrylate | 80-62-6 | ACGIH | TWA:50 ppm;STEL:100 ppm | A4: Not class. as human carcin, Dermal Sensitizer |
| Methyl Methacrylate | 80-62-6 | Malaysia OELs | TWA(8 hours):410 mg/m3(100 ppm) | |

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

Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining. 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

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**

| | |
|--|---|
| Physical state | Liquid |
| Specific Physical Form: | Paste |
| Color | Blue-Green |
| Odor | Mild Acrylic |
| 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 | <i>No Data Available</i> |
| Flash Point | 106.1 °C [<i>Test Method: Closed Cup</i>] |
| 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 | <i>No Data Available</i> |

| | |
|---|--|
| Vapor Density and/or Relative Vapor Density | No Data Available |
| Density | 0.95 - 1.05 g/ml |
| Relative Density | 0.95 - 1.05 [Ref Std: WATER=1] |
| Water solubility | Slight (less than 10%) |
| Solubility- non-water | No Data Available |
| Partition coefficient: n-octanol/ water | No Data Available |
| Autoignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Viscosity/Kinematic Viscosity | No Data Available |
| Volatile Organic Compounds | 0.6 % weight [Details:when used as intended with Part A] |
| Percent volatile | No Data Available |
| VOC Less H2O & Exempt Solvents | 5.5 g/l [Details:when used as intended with Part A] |
| Molecular weight | No Data Available |

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

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

Strong acids

10.6. Hazardous decomposition products

Substance

None known.

Condition

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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May cause additional health effects (see below).

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.

May cause additional health effects (see below).

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

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.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---------------------------------|-----------|------------------------|--|
| Overall product | Dermal | | No data available; calculated ATE >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 |
| 2-Ethylhexyl Methacrylate | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| 2-Ethylhexyl Methacrylate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Impact Modifier | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Impact Modifier | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Copper Naphthenates | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Copper Naphthenates | Ingestion | similar compounds | LD50 >300, < 2,000 mg/kg |
| Succinic Anhydride | Dermal | Rat | LD50 > 2,000 mg/kg |

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| | | | |
|----------------------------|----------------------------|------------------------|--|
| Succinic Anhydride | Ingestion | Rat | LD50 1,510 mg/kg |
| Tetrahydrofurfuryl Alcohol | Dermal | Professional judgement | 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 |
| Methyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Methyl Methacrylate | Inhalation-Vapor (4 hours) | Rat | LC50 29 mg/l |
| Methyl Methacrylate | Ingestion | Rat | LD50 7,900 mg/kg |
| Styrene Monomer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Styrene Monomer | Inhalation-Vapor (4 hours) | Rat | LC50 11.8 mg/l |
| Styrene Monomer | Ingestion | Rat | LD50 5,000 mg/kg |
| Maleic Anhydride | Dermal | Rabbit | LD50 2,620 mg/kg |
| Maleic Anhydride | Ingestion | Rat | LD50 1,030 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---------------------------------|------------------------|---------------------------|
| Tetrahydrofurfuryl Methacrylate | Rabbit | No significant irritation |
| 2-Ethylhexyl Methacrylate | Rabbit | Minimal irritation |
| Impact Modifier | Professional judgement | Mild irritant |
| Copper Naphthenates | Rabbit | No significant irritation |
| Succinic Anhydride | In vitro data | Corrosive |
| Tetrahydrofurfuryl Alcohol | Rabbit | No significant irritation |
| Methyl Methacrylate | Human and animal | Mild irritant |
| Styrene Monomer | Professional judgement | Mild irritant |
| Maleic Anhydride | Human and animal | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---------------------------------|------------------------|---------------------------|
| Tetrahydrofurfuryl Methacrylate | Rabbit | No significant irritation |
| 2-Ethylhexyl Methacrylate | Rabbit | No significant irritation |
| Impact Modifier | In vitro data | Corrosive |
| Copper Naphthenates | In vitro data | No significant irritation |
| Succinic Anhydride | similar health hazards | Corrosive |
| Tetrahydrofurfuryl Alcohol | Rabbit | Severe irritant |
| Methyl Methacrylate | Rabbit | Moderate irritant |
| Styrene Monomer | Professional judgement | Moderate irritant |

| | | |
|------------------|--------|-----------|
| Maleic Anhydride | Rabbit | Corrosive |
|------------------|--------|-----------|

Sensitization:

Skin Sensitization

| Name | Species | Value |
|---------------------------------|-------------------------|----------------|
| Tetrahydrofurfuryl Methacrylate | In vitro data | Sensitizing |
| 2-Ethylhexyl Methacrylate | Guinea pig | Sensitizing |
| Impact Modifier | Professional judgement | Sensitizing |
| Copper Naphthenates | Guinea pig | Not classified |
| Succinic Anhydride | Mouse | Sensitizing |
| Tetrahydrofurfuryl Alcohol | Mouse | Not classified |
| Methyl Methacrylate | Human and animal | Sensitizing |
| Styrene Monomer | Guinea pig | Not classified |
| Maleic Anhydride | Multiple animal species | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|---------------------|-------------------|----------------|
| Succinic Anhydride | similar compounds | Sensitizing |
| Methyl Methacrylate | Human | Not classified |
| Maleic Anhydride | Human | Sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|---------------------------------|----------|--|
| Tetrahydrofurfuryl Methacrylate | In Vitro | Not mutagenic |
| 2-Ethylhexyl Methacrylate | In Vitro | Not mutagenic |
| Impact Modifier | In Vitro | Not mutagenic |
| Succinic Anhydride | In Vitro | Not mutagenic |
| Tetrahydrofurfuryl Alcohol | In Vitro | Not mutagenic |
| Methyl Methacrylate | In vivo | Not mutagenic |
| Methyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Styrene Monomer | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Styrene Monomer | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Maleic Anhydride | In vivo | Not mutagenic |
| Maleic Anhydride | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---------------------|------------|-------------------------|------------------|
| Succinic Anhydride | Ingestion | Multiple animal species | Not carcinogenic |
| Methyl Methacrylate | Ingestion | Rat | Not carcinogenic |
| Methyl Methacrylate | Inhalation | Human | Not carcinogenic |

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| | | | |
|-----------------|------------|------------------|--------------|
| | | and animal | |
| Styrene Monomer | Ingestion | Mouse | Carcinogenic |
| Styrene Monomer | Inhalation | Human and animal | 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 | prematuring into lactation |
| Tetrahydrofurfuryl Methacrylate | Ingestion | Toxic to development | Rat | NOAEL 120 mg/kg/day | prematuring into lactation |
| 2-Ethylhexyl Methacrylate | Ingestion | Not classified for male reproduction | | NOAEL 1,000 mg/kg/day | 49 days |
| 2-Ethylhexyl Methacrylate | Ingestion | Not classified for female reproduction | | NOAEL 300 mg/kg/day | prematuring into lactation |
| 2-Ethylhexyl Methacrylate | Ingestion | Not classified for development | | NOAEL 300 mg/kg/day | during gestation |
| Tetrahydrofurfuryl Alcohol | Ingestion | Toxic to female reproduction | Rat | NOAEL 50 mg/kg/day | prematuring 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 | prematuring into lactation |
| Methyl Methacrylate | Inhalation | Not classified for male reproduction | Mouse | NOAEL 36.9 mg/l | |
| Methyl Methacrylate | Inhalation | Not classified for development | Rat | NOAEL 8.3 mg/l | during organogenesis |
| Styrene Monomer | Ingestion | Not classified for female reproduction | Rat | NOAEL 21 mg/kg/day | 3 generation |
| Styrene Monomer | Inhalation | Not classified for female reproduction | Rat | NOAEL 2.1 mg/l | 2 generation |
| Styrene Monomer | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.1 mg/l | 2 generation |
| Styrene Monomer | Ingestion | Not classified for male reproduction | Rat | NOAEL 400 mg/kg/day | 60 days |
| Styrene Monomer | Ingestion | Not classified for development | Rat | NOAEL 400 mg/kg/day | during gestation |
| Styrene Monomer | Inhalation | Not classified for development | Multiple animal species | NOAEL 2.1 mg/l | during gestation |
| Maleic Anhydride | Ingestion | Not classified for female reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| Maleic Anhydride | Ingestion | Not classified for male reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| Maleic Anhydride | Ingestion | Not classified for development | Rat | NOAEL 140 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 |
|-----------------|------------|------------------------|-----------------------------------|---------|-------------|-------------------|
| Impact Modifier | Inhalation | respiratory irritation | Some positive data exist, but the | similar | NOAEL Not | |

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| | | | | | | |
|----------------------------|------------|-----------------------------------|--|-------------------------|---------------------|-----------------------|
| | | | data are not sufficient for classification | health hazards | available | |
| Succinic Anhydride | Inhalation | respiratory irritation | May cause respiratory irritation | 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 | |
| Methyl Methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | auditory system | Causes damage to organs | Multiple animal species | LOAEL 4.3 mg/l | not available |
| Styrene Monomer | Inhalation | liver | Causes damage to organs | Mouse | LOAEL 2.1 mg/l | not available |
| Styrene Monomer | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |
| Styrene Monomer | Inhalation | endocrine system | Not classified | Rat | NOAEL Not available | not available |
| Styrene Monomer | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2.1 mg/l | not available |
| Maleic Anhydride | Inhalation | respiratory irritation | May cause respiratory irritation | Human | 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 |
| 2-Ethylhexyl Methacrylate | Ingestion | heart endocrine system hematopoietic system liver immune system nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 360 mg/kg/day | 90 days |
| Succinic Anhydride | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system | Not classified | Mouse | NOAEL 300 mg/kg/day | 13 weeks |
| 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 | Ingestion | endocrine system | Not classified | Rat | NOAEL 600 | 28 days |

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| | | | | | | |
|----------------------------|------------|---|--|-------------------------|---------------------|-----------------------|
| Alcohol | | kidney and/or bladder | | | mg/kg/day | |
| 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 |
| Methyl Methacrylate | Dermal | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Inhalation | olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL Not available | 14 weeks |
| Methyl Methacrylate | Inhalation | liver | Not classified | Mouse | NOAEL 12.3 mg/l | 14 weeks |
| Methyl Methacrylate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | auditory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL not available | occupational exposure |
| Styrene Monomer | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | liver | May cause damage to organs though prolonged or repeated exposure | Mouse | LOAEL 0.85 mg/l | 13 weeks |
| Styrene Monomer | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 1.1 mg/l | not available |
| Styrene Monomer | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.85 mg/l | 7 days |
| Styrene Monomer | Inhalation | endocrine system | Not classified | Rat | NOAEL 0.6 mg/l | 10 days |
| Styrene Monomer | Inhalation | respiratory system | Not classified | Multiple animal species | LOAEL 0.09 mg/l | not available |
| Styrene Monomer | Inhalation | heart gastrointestinal tract bone, teeth, nails, and/or hair muscles kidney and/or bladder | Not classified | Multiple animal species | NOAEL 4.3 mg/l | 2 years |
| Styrene Monomer | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 500 mg/kg/day | 8 weeks |
| Styrene Monomer | Ingestion | immune system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | not available |
| Styrene Monomer | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 677 mg/kg/day | 6 months |
| Styrene Monomer | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 600 mg/kg/day | 470 days |
| Styrene Monomer | Ingestion | heart respiratory system | Not classified | Rat | NOAEL 35 mg/kg/day | 105 weeks |
| Maleic Anhydride | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.0011 mg/l | 6 months |
| Maleic Anhydride | Inhalation | endocrine system hematopoietic system nervous system kidney and/or bladder heart liver eyes | Not classified | Rat | NOAEL 0.0098 mg/l | 6 months |
| Maleic Anhydride | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 55 mg/kg/day | 80 days |
| Maleic Anhydride | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 250 mg/kg/day | 183 days |
| Maleic Anhydride | Ingestion | heart nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 183 days |

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| | | | | | | |
|------------------|-----------|---|----------------|-----|---------------------|---------|
| Maleic Anhydride | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| Maleic Anhydride | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 60 mg/kg/day | 90 days |
| Maleic Anhydride | Ingestion | skin endocrine system immune system eyes respiratory system | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |

Aspiration Hazard

| Name | Value |
|-----------------|-------------------|
| Styrene Monomer | Aspiration hazard |

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for 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 |
|---------------------------------|--------------|----------------|---|----------|---------------|-------------|
| 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 |
| Acrylate Polymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 2-Ethylhexyl Methacrylate | 688-84-6 | Green algae | Experimental | 72 hours | EC50 | 5.3 mg/l |
| 2-Ethylhexyl Methacrylate | 688-84-6 | Medaka | Experimental | 96 hours | LC50 | 2.8 mg/l |
| 2-Ethylhexyl Methacrylate | 688-84-6 | Water flea | Experimental | 48 hours | EC50 | 4.6 mg/l |
| 2-Ethylhexyl Methacrylate | 688-84-6 | Green algae | Experimental | 72 hours | NOEC | 0.81 mg/l |
| 2-Ethylhexyl Methacrylate | 688-84-6 | Water flea | Experimental | 21 days | NOEC | 0.105 mg/l |
| Impact Modifier | 20882-04-6 | Green algae | Experimental | 72 hours | ErC50 | >312 mg/l |
| Impact Modifier | 20882-04-6 | Water flea | Experimental | 48 hours | EC50 | >515.4 mg/l |
| Impact Modifier | 20882-04-6 | Green algae | Experimental | 72 hours | ErC10 | >=161 mg/l |
| Dibutyl Itaconate | 2155-60-4 | N/A | Data not available or insufficient for | N/A | N/A | N/A |

3M(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 Blue and Structural Plastic Adhesive 8010 Blue, Part B

| | | | classification | | | |
|----------------------------|-----------|-------------------------------|--------------------|------------|-------|---------------------------|
| Copper Naphthenates | 1338-02-9 | Green algae | Estimated | 72 hours | EC50 | 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 | 0.0702 mg/l |
| Copper Naphthenates | 1338-02-9 | Algae or other aquatic plants | Estimated | N/A | NOEC | 0.132 mg/l |
| Copper Naphthenates | 1338-02-9 | Fathead Minnow | Estimated | 32 days | EC10 | 0.0354 mg/l |
| Copper Naphthenates | 1338-02-9 | Water flea | Estimated | 21 days | NOEC | 0.0756 mg/l |
| Succinic Anhydride | 108-30-5 | Green algae | Analogous Compound | 72 hours | ErC50 | >100 mg/l |
| Succinic Anhydride | 108-30-5 | Water flea | Analogous Compound | 48 hours | EC50 | >100 mg/l |
| Succinic Anhydride | 108-30-5 | Zebra Fish | Analogous Compound | 96 hours | LC50 | >100 mg/l |
| Succinic Anhydride | 108-30-5 | Green algae | Analogous Compound | 72 hours | NOEC | 100 mg/l |
| 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 |
| Methyl Methacrylate | 80-62-6 | Green algae | Experimental | 72 hours | EC50 | >110 mg/l |
| Methyl Methacrylate | 80-62-6 | Rainbow Trout | Experimental | 96 hours | LC50 | >79 mg/l |
| Methyl Methacrylate | 80-62-6 | Water flea | Experimental | 48 hours | EC50 | 69 mg/l |
| Methyl Methacrylate | 80-62-6 | Green algae | Experimental | 72 hours | NOEC | 110 mg/l |
| Methyl Methacrylate | 80-62-6 | Water flea | Experimental | 21 days | NOEC | 37 mg/l |
| Methyl Methacrylate | 80-62-6 | Activated sludge | Experimental | 30 minutes | EC20 | 150 mg/l |
| Methyl Methacrylate | 80-62-6 | Soil microbes | Experimental | 28 days | NOEC | >1,000 mg/kg (Dry Weight) |
| Styrene Monomer | 100-42-5 | Activated sludge | Experimental | 30 minutes | EC50 | 500 mg/l |
| Styrene Monomer | 100-42-5 | Fathead Minnow | Experimental | 96 hours | LC50 | 4.02 mg/l |
| Styrene Monomer | 100-42-5 | Green algae | Experimental | 72 hours | EC50 | 4.9 mg/l |
| Styrene Monomer | 100-42-5 | Water flea | Experimental | 48 hours | EC50 | 4.7 mg/l |
| Styrene Monomer | 100-42-5 | Green algae | Experimental | 96 hours | EC10 | 0.28 mg/l |
| Styrene Monomer | 100-42-5 | Water flea | Experimental | 21 days | NOEC | 1.01 mg/l |
| Maleic Anhydride | 108-31-6 | Bacteria | Experimental | 18 hours | EC10 | 44.6 mg/l |
| Maleic Anhydride | 108-31-6 | Rainbow Trout | Experimental | 96 hours | LC50 | 75 mg/l |
| Maleic Anhydride | 108-31-6 | Green algae | Hydrolysis Product | 72 hours | ErC50 | 74.4 mg/l |
| Maleic Anhydride | 108-31-6 | Water flea | Hydrolysis Product | 48 hours | EC50 | 93.8 mg/l |
| Maleic Anhydride | 108-31-6 | Water flea | Experimental | 21 days | NOEC | 10 mg/l |
| Maleic Anhydride | 108-31-6 | Green algae | Hydrolysis Product | 72 hours | ErC10 | 11.8 mg/l |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|--------------------|-----------|--------------|----------|-------------------|--------------|------------------------|
| Tetrahydrofurfuryl | 2455-24-5 | Experimental | 28 days | Biological Oxygen | 75 %BOD/ThOD | OECD 301F - Manometric |

3M(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 Blue and Structural Plastic Adhesive 8010 Blue, Part B

| Methacrylate | | Biodegradation | | Demand | (< 10 day window) | Respiro |
|----------------------------|--------------|-----------------------------------|---------|--------------------------------|------------------------------------|--------------------------------|
| Acrylate Polymer | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 2-Ethylhexyl Methacrylate | 688-84-6 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 88 %BOD/ThOD | OECD 301C - MITI (I) |
| Impact Modifier | 20882-04-6 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | ≥80 %BOD/ThOD (< 10 day window) | OECD 301F - Manometric Respiro |
| Impact Modifier | 20882-04-6 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | OECD 111 Hydrolysis func of pH |
| Dibutyl Itaconate | 2155-60-4 | Estimated Biodegradation | 28 days | Biological Oxygen Demand | 72 %BOD/ThOD | OECD 301F - Manometric Respiro |
| Copper Naphthenates | 1338-02-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Succinic Anhydride | 108-30-5 | Hydrolysis product Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 96.55 %removal of DOC | OECD 301E - Modif. OECD Screen |
| Succinic Anhydride | 108-30-5 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 4.3 minutes (t 1/2) | |
| 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 |
| Methyl Methacrylate | 80-62-6 | Experimental Biodegradation | 14 days | Biological Oxygen Demand | 94 %BOD/ThOD | OECD 301C - MITI (I) |
| Styrene Monomer | 100-42-5 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 70.9 %BOD/ThOD | |
| Styrene Monomer | 100-42-5 | Experimental Photolysis | | Photolytic half-life (in air) | 6.64 hours (t 1/2) | |
| Maleic Anhydride | 108-31-6 | Hydrolysis product Biodegradation | 25 days | Carbon dioxide evolution | >90 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Maleic Anhydride | 108-31-6 | Experimental Hydrolysis | | Hydrolytic half-life | 0.37 minutes (t 1/2) | |

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 |
| Acrylate Polymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-Ethylhexyl Methacrylate | 688-84-6 | Experimental Bioconcentration | 96 hours | Bioaccumulation Factor | 37 | OECD305-Bioconcentration |
| Impact Modifier | 20882-04-6 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 0.782 | EC A.8 Partition Coefficient |
| Dibutyl Itaconate | 2155-60-4 | Estimated Bioconcentration | | Bioaccumulation Factor | 5.7 | |
| Copper Naphthenates | 1338-02-9 | Estimated BCF - Fish | 42 days | Bioaccumulation Factor | ≤27 | OECD305-Bioconcentration |
| Succinic Anhydride | 108-30-5 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 2.44 | OECD 117 log Kow HPLC method |
| Tetrahydrofurfuryl Alcohol | 97-99-4 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | -0.11 | OECD 107 log Kow shke flsk mtd |
| Methyl Methacrylate | 80-62-6 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 1.38 | OECD 107 log Kow shke flsk mtd |
| Styrene Monomer | 100-42-5 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 2.96 | |
| Maleic Anhydride | 108-31-6 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | -2.61 | OECD 107 log Kow shke flsk mtd |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

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 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 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