



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Minister of Industry Decree No. 23/M-IND/PER/4/2013 and GHS Classification 4th Edition.

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|------------------------|------------|-------------------------|---------------|
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SECTION 1: Identification

1.1. Product identifier

3M(TM) Scotch-Weld(TM) Threadlocker TL71, Red

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| 62-3496-0160-9 | 62-3496-1060-0 | 62-3496-1065-9 | 62-3496-3960-9 | 62-3496-5060-6 |
| HB-0040-7427-2 | UU-0015-5274-2 | | | |

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

1.3. Supplier's details

ADDRESS: PT 3M Indonesia , Perkantoran Hijau Arkadia, Menara F, Lt. 8. Jl. TB. Simatupang Kav. 88, Jakarta Selatan, 12520, Indonesia
Telephone: +6221-29974000
Website: https://www.3m.co.id/3M/en_ID/company-id/

1.4. Emergency telephone number

(021)29974000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.
Specific Target Organ Toxicity (repeated exposure): Category 1.
Acute Aquatic Toxicity: Category 3.
Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark |Health Hazard |Environment |

Pictograms



HAZARD STATEMENTS:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.

- H372 Causes damage to organs through prolonged or repeated exposure: nervous system | respiratory system.

- H402 Harmful to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P273 Avoid release to the environment.
- P280E Wear protective gloves.

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.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
- P391 Collect spillage.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt |
|---|--------------|---------|
| Triethylene Glycol Dimethacrylate | 109-16-0 | 40 - 70 |
| Polyester Resin (NJTS Reg. No. 04499600-7087) | Trade Secret | 10 - 30 |
| Hydroxypropyl Methacrylate | 27813-02-1 | 1 - 10 |
| Acrylic Acid | 79-10-7 | <= 1.5 |
| Cumene Hydroperoxide | 80-15-9 | < 1.5 |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | < 1 |
| Saccharin | 81-07-2 | <= 1 |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | <= 0.5 |

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide

Carbon dioxide

Oxides of Nitrogen

Oxides of Sulfur

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

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**

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.)

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store away from oxidizing agents.

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 |
|----------------------|------------|----------------|--|--|
| Acrylic Acid | 79-10-7 | ACGIH | TWA:2 ppm | A4: Not class. as human carcin, Danger of cutaneous absorption |
| Acrylic Acid | 79-10-7 | Indonesia OELs | TWA(8 hours):5.9 mg/m ³ (2 ppm) | SKIN |
| Cumene Hydroperoxide | 80-15-9 | AIHA | TWA:6 mg/m ³ (1 ppm) | SKIN |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Indonesia OELs : Indonesia. Minister of Manpower and Transmigration Decree No. 13/MEN/X/2011 concerning Threshold Values, Chemical and Physical Factors in the Workplace.

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:

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: | Thixotropic Liquid |
| Color | Red |
| Odor | Mild Solvent |
| 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 | ≥ 148.9 °C [<i>@ 101,324.72 Pa</i>] |
| Flash Point | ≥ 100 °C [<i>Test Method: Tagliabue Closed Cup</i>] |
| Evaporation rate | Negligible |
| Flammability | Not Applicable |
| Flammable Limits(LEL) | <i>No Data Available</i> |
| Flammable Limits(UEL) | <i>No Data Available</i> |
| Vapor Pressure | ≤ 666.6 Pa |
| Relative Vapor Density | 1.01 [<i>Ref Std: AIR=1</i>] |
| Density | 1.1 - 1.13 g/ml [<i>@ 20 °C</i>] |
| Relative Density | 1.1 - 1.13 [<i>@ 20 °C</i>] [<i>Ref Std: WATER=1</i>] |
| Water solubility | Negligible |
| 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> |
| Kinematic Viscosity | 455 mm ² /sec |
| Volatile Organic Compounds | <i>No Data Available</i> |
| Percent volatile | <i>No Data Available</i> |
| VOC Less H₂O & Exempt Solvents | < 5 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| Molecular weight | <i>No Data Available</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

Light

10.5. Incompatible materials

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:

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:

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

Eye Contact:

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:

Prolonged or repeated exposure may cause target organ effects:

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

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 | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Triethylene Glycol Dimethacrylate | Dermal | Mouse | LD50 > 2,000 |
| Triethylene Glycol Dimethacrylate | Ingestion | Rat | LD50 10,837 mg/kg |
| Hydroxypropyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Hydroxypropyl Methacrylate | Ingestion | Rat | LD50 > 11,200 mg/kg |
| Acrylic Acid | Dermal | Rabbit | LD50 640 mg/kg |
| Acrylic Acid | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3.8 mg/l |
| Acrylic Acid | Ingestion | Rat | LD50 1,250 mg/kg |
| Cumene Hydroperoxide | Dermal | Rat | LD50 500 mg/kg |
| Cumene Hydroperoxide | Inhalation-Vapor (4 hours) | Rat | LC50 1.4 mg/l |
| Cumene Hydroperoxide | Ingestion | Rat | LD50 382 mg/kg |
| Saccharin | Ingestion | Mouse | LD50 17,000 mg/kg |
| Saccharin | Dermal | similar health hazards | LD50 estimated to be > 5,000 mg/kg |
| 1-Acetyl-2-Phenylhydrazine | Dermal | | LD50 estimated to be 200 - 1,000 mg/kg |
| 1-Acetyl-2-Phenylhydrazine | Ingestion | Mouse | LD50 270 mg/kg |
| 2,2'-(p-Tolylimino)diethanol | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 2,2'-(p-Tolylimino)diethanol | Ingestion | Rat | LD50 959 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------------------|-------------------------|---------------------------|
| Triethylene Glycol Dimethacrylate | Rabbit | No significant irritation |
| Hydroxypropyl Methacrylate | Rabbit | Minimal irritation |
| Acrylic Acid | Rabbit | Corrosive |
| Cumene Hydroperoxide | official classification | Corrosive |
| Saccharin | similar compounds | No significant irritation |
| 2,2'-(p-Tolylimino)diethanol | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

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| Name | Species | Value |
|-----------------------------------|-------------------------|---------------------------|
| Triethylene Glycol Dimethacrylate | Rabbit | No significant irritation |
| Hydroxypropyl Methacrylate | Rabbit | Moderate irritant |
| Acrylic Acid | Rabbit | Corrosive |
| Cumene Hydroperoxide | official classification | Corrosive |
| Saccharin | similar compounds | No significant irritation |
| 2,2'-(p-Tolylimino)diethanol | Rabbit | Corrosive |

Sensitization:**Skin Sensitization**

| Name | Species | Value |
|-----------------------------------|------------------------|----------------|
| Triethylene Glycol Dimethacrylate | Mouse | Sensitizing |
| Hydroxypropyl Methacrylate | Human and animal | Sensitizing |
| Acrylic Acid | Guinea pig | Not classified |
| Saccharin | Mouse | Not classified |
| 1-Acetyl-2-Phenylhydrazine | Professional judgement | Sensitizing |
| 2,2'-(p-Tolylimino)diethanol | Mouse | 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 |
|-----------------------------------|----------|--|
| Triethylene Glycol Dimethacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Hydroxypropyl Methacrylate | In vivo | Not mutagenic |
| Hydroxypropyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Acrylic Acid | In vivo | Not mutagenic |
| Acrylic Acid | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Cumene Hydroperoxide | In vivo | Not mutagenic |
| Cumene Hydroperoxide | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Saccharin | In Vitro | Not mutagenic |
| Saccharin | In vivo | Some positive data exist, but the data are not sufficient for classification |
| 1-Acetyl-2-Phenylhydrazine | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,2'-(p-Tolylimino)diethanol | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------------------|-----------|---------|--|
| Triethylene Glycol Dimethacrylate | Dermal | Mouse | Not carcinogenic |
| Acrylic Acid | Ingestion | Rat | Not carcinogenic |
| Acrylic Acid | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Saccharin | Ingestion | Mouse | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|-----------------------------------|------------|--|---------|-----------------------|----------------------------|
| Triethylene Glycol Dimethacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Triethylene Glycol Dimethacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 5 weeks |
| Triethylene Glycol Dimethacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Hydroxypropyl Methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Hydroxypropyl Methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 49 days |
| Hydroxypropyl Methacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| Acrylic Acid | Ingestion | Not classified for female reproduction | Rat | NOAEL 460 mg/kg/day | 2 generation |
| Acrylic Acid | Ingestion | Not classified for male reproduction | Rat | NOAEL 460 mg/kg/day | 2 generation |
| Acrylic Acid | Inhalation | Not classified for development | Rat | NOAEL 1.1 mg/l | during organogenesis |
| Acrylic Acid | Ingestion | Not classified for development | Rat | NOAEL 53 mg/kg/day | 2 generation |
| Saccharin | Ingestion | Not classified for female reproduction | Mouse | NOAEL 714 mg/kg/day | 6 generation |
| Saccharin | Ingestion | Not classified for male reproduction | Mouse | NOAEL 714 mg/kg/day | 6 generation |
| Saccharin | Ingestion | Not classified for development | Mouse | NOAEL 2,000 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 |
|------------------------------|------------|-----------------------------------|--|------------------------|---------------------|-----------------------|
| Hydroxypropyl Methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Acrylic Acid | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |
| Cumene Hydroperoxide | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | occupational exposure |
| Cumene Hydroperoxide | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | occupational exposure |
| Cumene Hydroperoxide | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 2,2'-(p-Tolylimino)diethanol | 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 |
|--------------------|--------|-----------------|----------------|---------|-------------|-------------------|
| Triethylene Glycol | Dermal | liver | Not classified | Mouse | NOAEL | 13 weeks |

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|-----------------------------------|------------|--|--|-------|-----------------------|----------|
| Dimethacrylate | | | | | 2,000 mg/kg/day | |
| Triethylene Glycol Dimethacrylate | Dermal | skin | Not classified | Mouse | NOAEL 100 mg/kg/day | 13 weeks |
| Triethylene Glycol Dimethacrylate | Dermal | gastrointestinal tract hematopoietic system nervous system kidney and/or bladder respiratory system | Not classified | Mouse | NOAEL 2,000 mg/kg/day | 13 weeks |
| Triethylene Glycol Dimethacrylate | Ingestion | hematopoietic system liver nervous system kidney and/or bladder eyes | Not classified | Rat | NOAEL 3,849 mg/kg/day | 13 weeks |
| Hydroxypropyl Methacrylate | Inhalation | blood | Not classified | Rat | NOAEL 0.5 mg/l | 21 days |
| Hydroxypropyl Methacrylate | Ingestion | hematopoietic system heart endocrine system liver immune system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Cumene Hydroperoxide | Inhalation | nervous system respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.2 mg/l | 7 days |
| Cumene Hydroperoxide | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 0.03 mg/l | 90 days |
| Saccharin | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 1,500 mg/kg/day | 1 years |
| Saccharin | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 7,500 mg/kg/day | 1 months |
| 1-Acetyl-2-Phenylhydrazine | Ingestion | hematopoietic system | Causes damage to organs through prolonged or repeated exposure | Dog | LOAEL 4 mg/kg/day | 7 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 2: Toxic to aquatic life with long lasting effects

No product test data available

| Material | Cas # | Organism | Type | Exposure | Test Endpoint | Test Result |
|----------|-------|----------|------|----------|---------------|-------------|
|----------|-------|----------|------|----------|---------------|-------------|

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| | | | | | | |
|-----------------------------------|------------|-------------------|--------------------|------------|-------|------------------------------|
| Triethylene Glycol Dimethacrylate | 109-16-0 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| Triethylene Glycol Dimethacrylate | 109-16-0 | Zebra Fish | Experimental | 96 hours | LC50 | 16.4 mg/l |
| Triethylene Glycol Dimethacrylate | 109-16-0 | Green algae | Experimental | 72 hours | NOEC | 18.6 mg/l |
| Triethylene Glycol Dimethacrylate | 109-16-0 | Water flea | Experimental | 21 days | NOEC | 32 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Bacteria | Experimental | N/A | EC10 | 1,140 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Golden Orfe | Experimental | 48 hours | EC50 | 493 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Green algae | Experimental | 72 hours | ErC50 | >97.2 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Water flea | Experimental | 48 hours | EC50 | >143 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Green algae | Experimental | 72 hours | NOEC | 97.2 mg/l |
| Hydroxypropyl Methacrylate | 27813-02-1 | Water flea | Experimental | 21 days | NOEC | 45.2 mg/l |
| Acrylic Acid | 79-10-7 | Diatom | Experimental | 5 days | ErC50 | 50 mg/l |
| Acrylic Acid | 79-10-7 | Green algae | Experimental | 72 hours | ErC50 | 0.13 mg/l |
| Acrylic Acid | 79-10-7 | Mysid Shrimp | Experimental | 96 hours | LC50 | 97 mg/l |
| Acrylic Acid | 79-10-7 | Rainbow Trout | Experimental | 96 hours | LC50 | 27 mg/l |
| Acrylic Acid | 79-10-7 | Sheepshead Minnow | Experimental | 96 hours | LC50 | 236 mg/l |
| Acrylic Acid | 79-10-7 | Water flea | Experimental | 48 hours | EC50 | 47 mg/l |
| Acrylic Acid | 79-10-7 | Diatom | Experimental | 72 hours | NOEC | 36 mg/l |
| Acrylic Acid | 79-10-7 | Green algae | Experimental | 72 hours | ErC10 | 0.03 mg/l |
| Acrylic Acid | 79-10-7 | Medaka | Experimental | 45 days | NOEC | 10.1 mg/l |
| Acrylic Acid | 79-10-7 | Water flea | Experimental | 21 days | NOEC | 3.8 mg/l |
| Acrylic Acid | 79-10-7 | Activated sludge | Experimental | 30 minutes | NOEC | 100 mg/l |
| Acrylic Acid | 79-10-7 | Bird | Experimental | 7 days | LD50 | >=98 mg per kg of bodyweight |
| Acrylic Acid | 79-10-7 | Ciliated Protozoa | Experimental | 48 hours | NOEC | 0.9 mg/l |
| Acrylic Acid | 79-10-7 | Redworm | Experimental | 14 days | LC50 | >1,000 mg/kg (Dry Weight) |
| Acrylic Acid | 79-10-7 | Soil microbes | Experimental | 28 days | NOEC | 100 mg/kg (Dry Weight) |
| Cumene Hydroperoxide | 80-15-9 | Bacteria | Experimental | 18 hours | EC10 | 0.103 mg/l |
| Cumene Hydroperoxide | 80-15-9 | Green algae | Experimental | 72 hours | EC50 | 3.1 mg/l |
| Cumene Hydroperoxide | 80-15-9 | Rainbow Trout | Experimental | 96 hours | LC50 | 3.9 mg/l |
| Cumene Hydroperoxide | 80-15-9 | Water flea | Experimental | 48 hours | EC50 | 18.84 mg/l |
| Cumene Hydroperoxide | 80-15-9 | Green algae | Experimental | 72 hours | NOEC | 1 mg/l |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | Activated sludge | Analogous Compound | 3 hours | EC50 | >1,000 mg/l |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | Common Carp | Analogous Compound | 96 hours | LC50 | >100 mg/l |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | Green algae | Analogous Compound | 72 hours | ErC50 | >100 mg/l |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | Water flea | Analogous Compound | 48 hours | EC50 | 48 mg/l |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | Green algae | Analogous Compound | 72 hours | NOEC | 100 mg/l |
| Saccharin | 81-07-2 | Green algae | Analogous Compound | 72 hours | ErC50 | >100 mg/l |
| Saccharin | 81-07-2 | Zebra Fish | Analogous Compound | 96 hours | LC50 | >400 mg/l |
| Saccharin | 81-07-2 | Water flea | Experimental | 48 hours | EC50 | >1,000 mg/l |

3M(TM) Scotch-Weld(TM) Threadlocker TL71, Red

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| Saccharin | 81-07-2 | Green algae | Analogous Compound | 72 hours | NOEC | 100 mg/l |
| Saccharin | 81-07-2 | Activated sludge | Experimental | 30 minutes | LOEC | >1,000 mg/l |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Medaka | Analogous Compound | 96 hours | LC50 | 0.016 mg/l |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Water flea | Analogous Compound | 48 hours | EC50 | 0.016 mg/l |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Zebra Fish | Analogous Compound | 16 days | NOEC | 0.00049 mg/l |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Anaerobic sludge | Analogous Compound | 24 hours | N/A | >=100 mg/l |

12.2. Persistence and degradability

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|-----------------------------------|------------|--|----------|--------------------------------|-------------------------------------|--------------------------------|
| Triethylene Glycol Dimethacrylate | 109-16-0 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 85 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 81 %BOD/ThOD | OECD 301C - MITI (I) |
| Acrylic Acid | 79-10-7 | Experimental Biodegradation | 28 days | Percent degraded | 81 %BOD/ThOD | OECD 301D - Closed Bottle Test |
| Acrylic Acid | 79-10-7 | Experimental Aquatic Inherent Biodegrad. | 28 days | Dissolv. Organic Carbon Deplet | 100 %removal of DOC | OECD 302B Zahn-Wellens/EVPA |
| Acrylic Acid | 79-10-7 | Experimental Photolysis | | Photolytic half-life (in air) | 1.4 days (t 1/2) | |
| Acrylic Acid | 79-10-7 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | 40CFR 796.3500-Hydrolysis |
| Acrylic Acid | 79-10-7 | Experimental Soil Metabolism Aerobic | 3 days | Percent degraded | 72.9 %CO2 evolution/THCO2 evolution | |
| Cumene Hydroperoxide | 80-15-9 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 0 %BOD/ThOD | OECD 301C - MITI (I) |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | Analogous Compound Biodegradation | 29 days | Carbon dioxide evolution | 1.5 %CO2 evolution/THCO2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Saccharin | 81-07-2 | Experimental Biodegradation | 7 days | Percent degraded | 90 %degraded | |
| Saccharin | 81-07-2 | Analogous Compound Biodegradation | 28 days | Biological Oxygen Demand | 96.55 %BOD/ThOD | OECD 301D - Closed Bottle Test |
| Saccharin | 81-07-2 | Analogous Compound Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | OECD 111 Hydrolysis func of pH |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Analogous Compound Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 97 %removal of DOC | OECD 301E - Modif. OECD Screen |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Analogous Compound Aquatic Inherent Biodegrad. | 10 days | Dissolv. Organic Carbon Deplet | 64 %removal of DOC | OECD 302B Zahn-Wellens/EVPA |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|-----------------------------------|------------|-------------------------------|----------|--------------------------------|-------------|------------------------------|
| Triethylene Glycol Dimethacrylate | 109-16-0 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 2.3 | EC A.8 Partition Coefficient |
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 0.97 | EC A.8 Partition Coefficient |

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|------------------------------|-----------|-------------------------------|--|--------------------------------|--------|---------------------------------|
| Acrylic Acid | 79-10-7 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 0.46 | OECD 107 log Kow shke flask mtd |
| Cumene Hydroperoxide | 80-15-9 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 1.82 | |
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | 2.0 | |
| Saccharin | 81-07-2 | Experimental Bioconcentration | | Log of Octanol/H2O part. coeff | -0.024 | OECD 117 log Kow HPLC method |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Modeled Bioconcentration | | Bioaccumulation Factor | 5 | Catalogic™ |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | Modeled Bioconcentration | | Log of Octanol/H2O part. coeff | 0.74 | Episuite™ |

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**

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information**Local Regulations**

Land Transport: In accordance with Director General of Land Transportation Decree No. SK.725/AJ.302/DRJD/2004 which refer to UN Standard.

Sea Transport: In accordance with Minister of Transportation Decree No. KM 2/2010 which refer to IMDG Code Standard.

International Regulations

UN No.: Not applicable

UN Proper Shipping Name: Not applicable

Transportation Class (IMO): Not applicable

Transportation Class (IATA): Not applicable

Packing Group: Not applicable

Marine Pollutant: Not applicable

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 material are in compliance with the provisions of Philippines RA 6969 requirements. 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.

Local Inventory Status

Addendum I Government Regulation No. 74/2001:

List of Hazardous Substances Approved for Use :

Acrylic Acid is listed as a Hazardous Substance Approved for Use.
Ethylene Glycol is listed as a Hazardous Substance Approved for Use.

Addendum II Government Regulation No. 74/2001:

Tab.1 List of Prohibited Substances for Use:

None of the substances are listed as a Prohibited Substance for Use.

Addendum II Government Regulation No. 74/2001:

Tab.2 List of Restricted Substances for Use:

None of the substances are listed as a Restricted Substance for Use.

Addendum I Ministry of Health Regulation No. 472/1996:

List and Classification of Hazardous Substances for Health:

None of the substances are listed and classified as a Hazardous Substance for Health.

Addendum I Act of Minister of Industry and Trade No. 254/MPP/KEP/2000

List of Hazardous Substances that are Regulated to Import Trade System:

None of the substances are listed and classified as a Hazardous Substance that is Regulated to Import Trade System.

SECTION 16: Other information

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3M Indonesia SDSs are available at https://www.3m.co.id/3M/en_ID/company-id/