

Safety Data Sheet

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

SECTION 1: Identification

1.1. Product identifier

3M(TM) Scotch-Weld(TM) Threadlocker TL42, Blue

Product Identification Numbers

| 62-3494-0160-4 | 62-3494-1060-5 | 62-3494-1065-4 | 62-3494-3960-4 | 62-3494-5060-1 |
|----------------|----------------|----------------|----------------|----------------|
| 62-3494-8360-2 | UU-0015-0200-2 | UU-0015-0326-5 | UU-0015-0371-1 | UU-0015-0390-1 |

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, SelangorTelephone:03-7884 2888E Mail:3mmyehsr@mmm.comWebsite:www.3M.com.my

1.4. Emergency telephone number

+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

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

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. |
| H350 | May cause cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure: nervous system respiratory system. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statements

| Prevention: P201 P260 P273 P280E P281 | Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment. Wear protective gloves. Use personal protective equipment as required. |
|--|--|
| Response: | |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| 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

Although titanium dioxide is classified as a carcinogen, exposures associated with this health effect are not expected during normal, intended use of this product., Aspiration classification does not apply due to the viscosity of the product.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | |
|-----------------------------------|--------------|---------|--|
| Triethylene Glycol Dimethacrylate | 109-16-0 | 30 - 50 | |
| Diisopropylnaphthalene | 38640-62-9 | 20 - 40 | |
| Hydroxypropyl Methacrylate | 27813-02-1 | 1 - 10 | |
| Polyester Resin | Trade Secret | 1 - 10 | |
| Amorphous Silica | 68909-20-6 | < 5 | |
| Saccharin | 81-07-2 | 1 - 5 | |

| Cumene Hydroperoxide | 80-15-9 | < 2 | |
|-------------------------------|------------|--------|--|
| 2,2'-(p-Tolylimino)diethanol | 3077-12-1 | < 1 | |
| Acrylic Acid | 79-10-7 | <= 1 | |
| Ethylene Glycol | 107-21-1 | < 1 | |
| Naphthalene, (1-methylethyl)- | 29253-36-9 | < 1 | |
| 1-Acetyl-2-Phenylhydrazine | 114-83-0 | <= 0.8 | |
| 2,6,-di-tert-Butyl-p-cresol | 128-37-0 | <= 0.5 | |
| N,N-Dimethyl-p-toluidine | 99-97-8 | <= 0.5 | |
| Titanium Dioxide | 13463-67-7 | <= 0.1 | |

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. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

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

4.2. Most important symptoms and effects, both acute and delayed

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

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. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

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 |
|-----------------------------|------------|---------------|-----------------------------|----------------------------|
| Ethylene Glycol | 107-21-1 | ACGIH | TWA(Vapor fraction):25 | A4: Not class. as human |
| | | | ppm;STEL(Vapor fraction):50 | carcin |
| | | | ppm;STEL(Inhalable | |
| | | | aerosol):10 mg/m3 | |
| Ethylene Glycol | 107-21-1 | Malaysia OELs | CEIL(as aerosol):100 | |
| | | | mg/m3(39.4 ppm) | |
| 2,6,-di-tert-Butyl-p-cresol | 128-37-0 | ACGIH | TWA(inhalable fraction and | A4: Not class. as human |
| | | | vapor):2 mg/m3 | carcin |
| 2,6,-di-tert-Butyl-p-cresol | 128-37-0 | Malaysia OELs | TWA(8 hours):10 mg/m3 | |
| DUST, INERT OR NUISANCE | 13463-67-7 | Malaysia OELs | TWA (proposed)(respirable | |
| | | | particles)(8 hours):3 | |
| | | | mg/m3;TWA | |
| | | | (proposed)(Inhalable | |

| | | | particulate)(8 hours):10 mg/m3 | |
|------------------|------------|---------------|--------------------------------|--|
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA:10 mg/m3 | A4: Not class. as human |
| | | | | carcin |
| Titanium Dioxide | 13463-67-7 | Malaysia OELs | TWA(8 hours):10 mg/m3 | |
| Acrylic Acid | 79-10-7 | ACGIH | TWA:2 ppm | A4: Not class. as human carcin, Danger of cutaneous absorption |
| Acrylic Acid | 79-10-7 | Malaysia OELs | TWA(8 hours):5.9 mg/m3(2 ppm) | SKIN |

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

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 | Blue |
| Odor | Mild Odor |
| Odor threshold | No Data Available |

| pH | Not Applicable |
|---|--|
| Melting point/Freezing point | Not Applicable |
| Boiling point/Initial boiling point/Boiling range | >=148.9 °C [@ 101,324.72 Pa] |
| Flash Point | >=100 °C [Test Method: Tagliabue Closed Cup] |
| Evaporation rate | Negligible |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | No Data Available |
| Flammable Limits(UEL) | No Data Available |
| Vapor Pressure | <=666.6 Pa |
| Vapor Density and/or Relative Vapor Density | 1.01 [<i>Ref Std</i> :AIR=1] |
| Density | 1.1 g/ml [@ 20 °C] |
| Relative Density | 1.1 [@ 20 °C] [<i>Ref Std</i> :WATER=1] |
| Water solubility | Negligible |
| 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 | 10,000 - 18,000 mPa-s [@ 20 °C] [Test Method:Brookfield] |
| Volatile Organic Compounds | No Data Available |
| Percent volatile | No Data Available |
| VOC Less H2O & Exempt Solvents | < 15 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1] |

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

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.

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.

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 | 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 | Professio nal judgeme nt | LD50 estimated to be > 5,000 mg/kg |
| Triethylene Glycol Dimethacrylate | Ingestion | Rat | LD50 10,837 mg/kg |
| Diisopropylnaphthalene | Dermal | Rat | LD50 > 4,500 mg/kg |
| Diisopropylnaphthalene | Inhalation- Dust/Mist | Rat | LC50 > 5.64 mg/l |
| Diisopropylnaphthalene | Ingestion | Rat | LD50 4,130 mg/kg |

| Hydroxypropyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
|------------------------------|-------------|--------|--|
| Hydroxypropyl Methacrylate | Ingestion | Rat | LD50 > 11,200 mg/kg |
| Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous Silica | Inhalation- | Rat | LC50 > 0.691 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| Amorphous Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Saccharin | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Saccharin | Ingestion | Mouse | LD50 17,000 mg/kg |
| Cumene Hydroperoxide | Dermal | Rat | LD50 500 mg/kg |
| Cumene Hydroperoxide | Inhalation- | Rat | LC50 1.4 mg/l |
| | Vapor (4 | | |
| | hours) | | |
| Cumene Hydroperoxide | Ingestion | Rat | LD50 382 mg/kg |
| Acrylic Acid | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Acrylic Acid | Inhalation- | Rat | LC50 3.8 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| Acrylic Acid | Ingestion | Rat | LD50 1,250 mg/kg |
| Ethylene Glycol | Ingestion | Human | LD50 1,600 mg/kg |
| Ethylene Glycol | Inhalation- | Other | LC50 estimated to be 5 - 12.5 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| Ethylene Glycol | Dermal | Rabbit | 9,530 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 |
| 2,6,-di-tert-Butyl-p-cresol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | Rat | LD50 > 2,930 mg/kg |
| N,N-Dimethyl-p-toluidine | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| N,N-Dimethyl-p-toluidine | Inhalation- | Rat | LC50 1.4 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| N,N-Dimethyl-p-toluidine | Ingestion | Rat | LD50 1,650 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 |
| Titanium Dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide | Inhalation- | Rat | LC50 > 6.82 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------------------|---------|---------------------------|
| | | |
| Triethylene Glycol Dimethacrylate | Guinea | Mild irritant |
| | pig | |
| Diisopropylnaphthalene | Rabbit | Minimal irritation |
| Hydroxypropyl Methacrylate | Rabbit | Minimal irritation |
| Amorphous Silica | Rabbit | No significant irritation |
| Cumene Hydroperoxide | Rabbit | Corrosive |
| Acrylic Acid | Rabbit | Corrosive |
| Ethylene Glycol | Rabbit | Minimal irritation |
| 2,6,-di-tert-Butyl-p-cresol | Human | Minimal irritation |
| | and | |
| | animal | |
| 2,2'-(p-Tolylimino)diethanol | Rabbit | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------------|------------------|-------------------|
| Triethylene Glycol Dimethacrylate | Professio nal | Moderate irritant |

| | judgemen | |
|------------------------------|----------|---------------------------|
| | t | |
| Diisopropylnaphthalene | Rabbit | Severe irritant |
| Hydroxypropyl Methacrylate | Rabbit | Moderate irritant |
| Amorphous Silica | Rabbit | No significant irritation |
| Cumene Hydroperoxide | Rabbit | Corrosive |
| Acrylic Acid | Rabbit | Corrosive |
| Ethylene Glycol | Rabbit | Mild irritant |
| 2,6,-di-tert-Butyl-p-cresol | Rabbit | Mild irritant |
| 2,2'-(p-Tolylimino)diethanol | Rabbit | Corrosive |
| Titanium Dioxide | Rabbit | No significant irritation |

Sensitization:

Skin Sensitization

| Name | Species | Value |
|-----------------------------------|-----------|----------------|
| Triethylene Glycol Dimethacrylate | Human | Sensitizing |
| | and | Sensitizing |
| | animal | |
| Diisopropylnaphthalene | Guinea | Not classified |
| | pig | |
| Hydroxypropyl Methacrylate | Human | Sensitizing |
| | and | |
| | animal | |
| Amorphous Silica | Human | Not classified |
| | and | |
| | animal | |
| Acrylic Acid | Guinea | Not classified |
| | pig | |
| Ethylene Glycol | Human | Not classified |
| 1-Acetyl-2-Phenylhydrazine | Professio | Sensitizing |
| | nal | |
| | judgemen | |
| | t | |
| 2,6,-di-tert-Butyl-p-cresol | Human | Not classified |
| 2,2'-(p-Tolylimino)diethanol | Mouse | Sensitizing |
| Titanium Dioxide | Human | Not classified |
| | and | |
| | animal | |

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 |
| Diisopropylnaphthalene | In Vitro | Not mutagenic |
| Diisopropylnaphthalene | In vivo | Not mutagenic |
| Hydroxypropyl Methacrylate | In vivo | Not mutagenic |
| Hydroxypropyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Amorphous Silica | In Vitro | Not mutagenic |
| Cumene Hydroperoxide | In vivo | Not mutagenic |
| Cumene Hydroperoxide | 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 |
| Ethylene Glycol | In Vitro | Not mutagenic |
| Ethylene Glycol | In vivo | Not mutagenic |
| 1-Acetyl-2-Phenylhydrazine | In Vitro | Some positive data exist, but the data are not |

| | | sufficient for classification |
|------------------------------|----------|-------------------------------|
| 2,6,-di-tert-Butyl-p-cresol | In Vitro | Not mutagenic |
| 2,6,-di-tert-Butyl-p-cresol | In vivo | Not mutagenic |
| 2,2'-(p-Tolylimino)diethanol | In Vitro | Not mutagenic |
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------------------|------------------|-------------------------------|--|
| Triethylene Glycol Dimethacrylate | Dermal | Mouse | Not carcinogenic |
| Diisopropylnaphthalene | Ingestion | Rat | Not carcinogenic |
| Amorphous Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Acrylic Acid | Ingestion | Rat | Not carcinogenic |
| Acrylic Acid | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Ethylene Glycol | Ingestion | Multiple animal species | Not carcinogenic |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| N,N-Dimethyl-p-toluidine | Ingestion | Multiple animal species | Carcinogenic |
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | 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 | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Triethylene Glycol Dimethacrylate | Ingestion | Not classified for male reproduction | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Triethylene Glycol Dimethacrylate | Ingestion | Not classified for development | Mouse | NOAEL 1 mg/kg/day | 1 generation |
| Diisopropylnaphthalene | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | during organogenesis |
| Hydroxypropyl Methacrylate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Hydroxypropyl Methacrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 49 days |
| Hydroxypropyl Methacrylate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| 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 |
| 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 |
|-----------------------------|------------|--|-------|-----------------------------|-------------------------|
| Ethylene Glycol | Dermal | Not classified for development | Mouse | NOAEL 3,549 mg/kg/day | during organogenesis |
| Ethylene Glycol | Ingestion | Not classified for development | Mouse | LOAEL 750 mg/kg/day | during organogenesis |
| Ethylene Glycol | Inhalation | Not classified for development | Mouse | NOAEL 1,000 mg/kg/day | during organogenesis |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|----------------------------------|------------|--|--|-----------------------------------|------------------------|---------------------------|
| Diisopropylnaphthalene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Hydroxypropyl Methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | 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 | Professio nal judgeme nt | NOAEL Not available | |
| Acrylic Acid | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Ethylene Glycol | Ingestion | heart nervous system kidney and/or bladder respiratory system | Causes damage to organs | Human | NOAEL Not available | poisoning and/or abuse |
| Ethylene Glycol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Ethylene Glycol | Ingestion | liver | Not classified | Human | NOAEL Not available | poisoning and/or abuse |
| 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 Dimethacrylate | Dermal | kidney and/or bladder blood | Not classified | Mouse | NOAEL 833 mg/kg/day | 78 weeks |
| Diisopropylnaphthalene | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 170 mg/kg/day | 6 months |
| Diisopropylnaphthalene | Ingestion | liver immune system kidney and/or bladder | Not classified | Rat | NOAEL 170 mg/kg/day | 6 months |
| Hydroxypropyl Methacrylate | Inhalation | blood | Not classified | Rat | NOAEL 0.5 mg/l | 21 days |
| Hydroxypropyl Methacrylate | Ingestion | hematopoietic system heart | Not classified | Rat | NOAEL 1,000 | 41 days |

| | | endocrine system liver immune system nervous | | | mg/kg/day | |
|-----------------------------|------------|---|--|-------------------------------|------------------------------|--------------------------|
| | | system kidney and/or bladder | | | | |
| Amorphous Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 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 |
| Ethylene Glycol | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 200 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | vascular system | Not classified | Rat | NOAEL 200 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | heart hematopoietic system liver immune system muscles | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | respiratory system | Not classified | Mouse | NOAEL 12,000 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | skin endocrine system bone, teeth, nails, and/or hair nervous system eyes | Not classified | Multiple animal species | NOAEL 1,000 mg/kg/day | 2 years |
| 1-Acetyl-2- | Ingestion | hematopoietic | Causes damage to organs through | Dog | LOAEL 4 | 7 days |
| Phenylhydrazine | | system | prolonged or repeated exposure | | mg/kg/day | |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| 2,6,-di-tert-Butyl-p-cresol | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |
| Titanium Dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium Dioxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |

Aspiration Hazard

| Name | Value |
|------------------------|-------------------|
| Diisopropylnaphthalene | 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 1: Very toxic to aquatic life with long lasting effects.

No product test data available

| Material | Cas # | Organism | Туре | Exposure | Test Endpoint | Test Result |
|----------------|------------|----------------|----------------|--------------------------|---------------|-------------|
| Triethylene | 109-16-0 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| Glycol | | _ | - | | | _ |
| Dimethacrylate | | | | | | |
| Triethylene | 109-16-0 | Zebra Fish | Experimental | 96 hours | LC50 | 16.4 mg/l |
| Glycol | | | | | | C |
| Dimethacrylate | | | | | | |
| Triethylene | 109-16-0 | Green algae | Experimental | 72 hours | NOEC | 18.6 mg/l |
| Glycol | | | | | | 5 |
| Dimethacrylate | | | | | | |
| Triethylene | 109-16-0 | Water flea | Experimental | 21 days | NOEC | 32 mg/l |
| Glycol | | | 1 | 5 | | 5 |
| Dimethacrylate | | | | | | |
| Diisopropylnap | 38640-62-9 | Bacteria | Experimental | | EC10 | >0.16 mg/l |
| hthalene | | | r · · · · | | | 5 |
| Diisopropylnap | 38640-62-9 | Medaka | Experimental | 96 hours | LC50 | 2.44 mg/l |
| hthalene | | | Linperintental | <i>y</i> o no n b | 2000 | |
| Diisopropylnap | 38640-62-9 | Water flea | Experimental | 48 hours | EL50 | 1.7 mg/l |
| hthalene | 50040 02 5 | water neu | Experimental | 40 110013 | LLJU | 1.7 mg/1 |
| Diisopropylnap | 38640-62-9 | Green algae | Experimental | 72 hours | NOEC | 0.15 mg/l |
| hthalene | 50040-02-5 | Green argae | Experimental | 72 110013 | NOLC | 0.15 mg/1 |
| Diisopropylnap | 38640-62-9 | Water flea | Experimental | 21 days | NOEC | 0.013 mg/l |
| hthalene | 50040-02-5 | water nea | Experimental | 21 days | NOLC | 0.015 mg/1 |
| Hydroxypropyl | 27813-02-1 | Bacteria | Experimental | | EC10 | 1,140 mg/l |
| Methacrylate | 27813-02-1 | Dacteria | Experimental | | LCIU | 1,140 mg/1 |
| Hydroxypropyl | 27813-02-1 | Golden Orfe | Experimental | 48 hours | EC50 | 493 mg/l |
| Methacrylate | 27813-02-1 | Golden Offe | Experimental | 40 110015 | LC30 | 493 mg/1 |
| Hydroxypropyl | 27813-02-1 | Green algae | Experimental | 72 hours | EC50 | >97.2 mg/l |
| Methacrylate | 27813-02-1 | Oreen aigae | Experimental | 72 110015 | LC30 | ~97.2 mg/i |
| Hydroxypropyl | 27813-02-1 | Water flea | Experimental | 48 hours | EC50 | >143 mg/l |
| Methacrylate | 2/813-02-1 | water nea | Experimental | 48 110015 | EC 30 | ~143 lllg/1 |
| Hydroxypropyl | 27813-02-1 | Green algae | Experimental | 72 hours | NOEC | 97.2 mg/l |
| Methacrylate | 2/813-02-1 | Green algae | Experimental | 72 nours | NOEC | 97.2 IIIg/1 |
| | 27813-02-1 | Watar flag | E-m anim antal | 21 dava | NOEC | 45.2 m c/l |
| Hydroxypropyl | 2/813-02-1 | Water flea | Experimental | 21 days | NOEC | 45.2 mg/l |
| Methacrylate | (0000 00 (| (1 | | 70.1 | E050 | > 100 /1 |
| Amorphous | 68909-20-6 | Algae or other | Estimated | 72 hours | EC50 | >100 mg/l |
| Silica | 01.07.0 | aquatic plants | | 0.6.1 | 1.050 | . 100 /1 |
| Saccharin | 81-07-2 | Guppy | Analogous | 96 hours | LC50 | >100 mg/l |
| ~ 1 · | | | Compound | | | 1.000 // |
| Saccharin | 81-07-2 | Activated | Experimental | 30 minutes | LOEC | >1,000 mg/l |
| | | sludge | | | | |
| Saccharin | 81-07-2 | Green algae | Experimental | 72 hours | ErC50 | >200 mg/l |
| Saccharin | 81-07-2 | Water flea | Experimental | 48 hours | EC50 | >1,000 mg/l |
| Cumene | 80-15-9 | Bacteria | Experimental | 18 hours | EC10 | 0.103 mg/l |

| | Ι | | | | 1 |
|------------|--|---|--|---|--|
| 90 15 0 | Crean algae | Europine ontol | 72 hours | EC50 | 3.1 mg/l |
| 80-15-9 | Green algae | Experimental | 72 nours | EC30 | 3.1 mg/1 |
| 90.15.0 | Deinherr Treed | F | 061 | 1.050 | 2.0 |
| 80-15-9 | Kainbow I rout | Experimental | 96 nours | LC50 | 3.9 mg/l |
| 00.15.0 | | | 40.1 | TO CO | |
| 80-15-9 | water flea | Experimental | 48 hours | EC50 | 18.84 mg/l |
| | | | | | |
| 80-15-9 | Green algae | Experimental | 72 hours | NOEC | 1 mg/l |
| | | | | | |
| 3077-12-1 | | Estimated | 3 hours | EC50 | >1,000 mg/l |
| | sludge | | | | |
| | | | | | |
| 3077-12-1 | Common Carp | Estimated | 96 hours | LC50 | >100 mg/l |
| | | | | | |
| | | | | | |
| 3077-12-1 | Green algae | Estimated | 72 hours | EC50 | >100 mg/l |
| | | | | | |
| | | | | | |
| 3077-12-1 | Water flea | Estimated | 48 hours | EC50 | 48 mg/l |
| | | | | | |
| | | | | | |
| 3077-12-1 | Green algae | Estimated | 72 hours | NOEC | 100 mg/l |
| | | | | | 0 |
| | | | | | |
| 79-10-7 | Green algae | Experimental | 72 hours | EC50 | 0.13 mg/l |
| | | | | | 27 mg/l |
| | | | | | 95 mg/l |
| | 1 | | | | 0.03 mg/l |
| | | <u> </u> | | | 3.8 mg/l |
| | water nea | | | | >=98 mg per kg of |
| /9-10-/ | | Experimental | / uays | LD30 | bodyweight |
| 79-10-7 | | Experimental | 48 hours | NOEC | 0.9 mg/l |
| | Activated | | | | 100 mg/l |
| /9-10-/ | | Experimental | 50 minutes | NOEC | 100 mg/1 |
| 70 10 7 | | Europine ontol | 14 dava | | >1,000 mg/kg (Dry |
| /9-10-/ | Redworm | Experimental | 14 days | LC30 | |
| 70.10.7 | 0.1.1 | F · / 1 | 20.1 | NOEG | Weight) |
| /9-10-/ | Soil microbes | Experimental | 28 days | NOEC | 100 mg/kg (Dry |
| 107.01.1 | D / I | | 1(1 | | Weight) |
| 107-21-1 | Bacteria | Experimental | 16 hours | EC50 | 10,000 mg/l |
| 107 01 1 | | | 0.001 | | 0.050 /1 |
| 107-21-1 | | Experimental | 96 hours | LC50 | 8,050 mg/l |
| 105 01 1 | | | | | 1 1 0 0 0 1 |
| 107-21-1 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| 10-0:: | | | | | |
| 107-21-1 | Water flea | Experimental | 48 hours | EC50 | >1,100 mg/l |
| | | | | | |
| 107-21-1 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| | | | | 1 | |
| 107-21-1 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| | 1 | | | | |
| | | | | | |
| 29253-36-9 | Green algae | Experimental | 72 hours | EC50 | 0.245 mg/l |
| 29253-36-9 | Green algae | Experimental | 72 hours | EC50 | 0.245 mg/l |
| 29253-36-9 | Green algae Medaka | Experimental | 72 hours 96 hours | EC50 | 0.245 mg/l |
| | 3077-12-1 3077-12-1 3077-12-1 3077-12-1 | 80-15-9 Rainbow Trout 80-15-9 Water flea 80-15-9 Green algae 3077-12-1 Activated sludge 3077-12-1 Common Carp 3077-12-1 Green algae 79-10-7 Redworm 79-10-7 Redworm 79-10-7 Soil microbes 107-21-1 Bacteria 107-21-1 Green algae 107-21-1 Green algae 107-21-1 Green algae 107-21-1 Green algae | NoteNote80-15-9Rainbow TroutExperimental80-15-9Green algaeExperimental80-15-9Green algaeExperimental3077-12-1Activated sludgeEstimated3077-12-1Common CarpEstimated3077-12-1Green algaeEstimated3077-12-1Green algaeEstimated3077-12-1Green algaeEstimated3077-12-1Green algaeEstimated3077-12-1Green algaeExperimental79-10-7Green algaeExperimental79-10-7Green algaeExperimental79-10-7Green algaeExperimental79-10-7Green algaeExperimental79-10-7Rainbow TroutExperimental79-10-7Rainbow TroutExperimental79-10-7RedwormExperimental79-10-7RedwormExperimental79-10-7Soil microbesExperimental107-21-1BacteriaExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental107-21-1Green algaeExperimental </td <td>80-15-9Rainbow TroutExperimental96 hours80-15-9Water fleaExperimental48 hours80-15-9Green algaeExperimental72 hours3077-12-1Activated sludgeEstimated3 hours3077-12-1Common CarpEstimated96 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeExperimental72 hours79-10-7Green algaeExperimental72 hours79-10-7Green algaeExperimental72 hours79-10-7Green algaeExperimental72 hours79-10-7Green algaeExperimental74 hours79-10-7Kater fleaExperimental74 hours79-10-7Experimental74 days79-10-7Experimental30 minutes79-10-7Activated sludgeExperimental30 minutes79-10-7Soil microbesExperimental28 days107-21-1BacteriaExperimental16 hours107-21-1Green algaeExperimental72 hours107-21-1Green algaeExperimental72 hours107-21-1Kater fleaExperimental72 hours107-21-1Green algaeExperimental72 h</td> <td>RelationProvide Experimental96 hoursLC5080-15-9Rainbow TroutExperimental96 hoursLC5080-15-9Green algaeExperimental72 hoursNOEC3077-12-1Activated sludgeEstimated3 hoursEC503077-12-1Common Carp Green algaeEstimated96 hoursLC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeExperimental72 hoursEC5079-10-7Green algaeExperimental72 hoursEC5079-10-7Green algaeExperimental72 hoursEC5079-10-7Water fleaExperimental72 hoursEC5079-10-7Water fleaExperimental72 hoursEC5079-10-7Water fleaExperimental72 hoursEC1079-10-7Water fleaExperimental72 hoursEC5079-10-7RedwormExperimental30 minutesNOEC79-10-7RedwormExperimental30 minutesNOEC79-10-7RedwormExperimental14 daysLC5079-10-7RedwormExperimental14 daysLC5079-10-7Soil microbesExperimental16 hoursEC5079-10-7<td< td=""></td<></td> | 80-15-9Rainbow TroutExperimental96 hours80-15-9Water fleaExperimental48 hours80-15-9Green algaeExperimental72 hours3077-12-1Activated sludgeEstimated3 hours3077-12-1Common CarpEstimated96 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeEstimated72 hours3077-12-1Green algaeExperimental72 hours79-10-7Green algaeExperimental72 hours79-10-7Green algaeExperimental72 hours79-10-7Green algaeExperimental72 hours79-10-7Green algaeExperimental74 hours79-10-7Kater fleaExperimental74 hours79-10-7Experimental74 days79-10-7Experimental30 minutes79-10-7Activated sludgeExperimental30 minutes79-10-7Soil microbesExperimental28 days107-21-1BacteriaExperimental16 hours107-21-1Green algaeExperimental72 hours107-21-1Green algaeExperimental72 hours107-21-1Kater fleaExperimental72 hours107-21-1Green algaeExperimental72 h | RelationProvide Experimental96 hoursLC5080-15-9Rainbow TroutExperimental96 hoursLC5080-15-9Green algaeExperimental72 hoursNOEC3077-12-1Activated sludgeEstimated3 hoursEC503077-12-1Common Carp Green algaeEstimated96 hoursLC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeEstimated72 hoursEC503077-12-1Green algaeExperimental72 hoursEC5079-10-7Green algaeExperimental72 hoursEC5079-10-7Green algaeExperimental72 hoursEC5079-10-7Water fleaExperimental72 hoursEC5079-10-7Water fleaExperimental72 hoursEC5079-10-7Water fleaExperimental72 hoursEC1079-10-7Water fleaExperimental72 hoursEC5079-10-7RedwormExperimental30 minutesNOEC79-10-7RedwormExperimental30 minutesNOEC79-10-7RedwormExperimental14 daysLC5079-10-7RedwormExperimental14 daysLC5079-10-7Soil microbesExperimental16 hoursEC5079-10-7 <td< td=""></td<> |

| | 1 | 1 | 1 | 1 | - | 1 |
|----------------|------------|-------------|--------------|------------|------------------|--------------|
| (1- | | | | | | |
| methylethyl)- | | | | | | |
| Naphthalene, | 29253-36-9 | Water flea | Experimental | 48 hours | EC50 | 0.67 mg/l |
| (1- | | | | | | |
| methylethyl)- | | | | | | |
| Naphthalene, | 29253-36-9 | Water flea | Estimated | 21 days | NOEC | 0.013 mg/l |
| (1- | | | | | | |
| methylethyl)- | | | | | | |
| Naphthalene, | 29253-36-9 | Green algae | Experimental | 72 hours | NOEC | 0.079 mg/l |
| (1- | | | | | | |
| methylethyl)- | | | | | | |
| 1-Acetyl-2- | 114-83-0 | Medaka | Analogous | 96 hours | LC50 | 0.016 mg/l |
| Phenylhydrazin | | | Compound | | | |
| e | | | | | | |
| 1-Acetyl-2- | 114-83-0 | Water flea | Analogous | 48 hours | EC50 | 0.016 mg/l |
| Phenylhydrazin | | | Compound | | | |
| e | | | | | | |
| 1-Acetyl-2- | 114-83-0 | Zebra Fish | Analogous | 16 days | NOEC | 0.00049 mg/l |
| Phenylhydrazin | | | Compound | | | |
| e | | | | | | |
| 2,6,-di-tert- | 128-37-0 | Activated | Experimental | 3 hours | EC50 | >10,000 mg/l |
| Butyl-p-cresol | | sludge | | | | |
| 2,6,-di-tert- | 128-37-0 | Green algae | Experimental | 72 hours | EC50 | >0.4 mg/l |
| Butyl-p-cresol | | _ | - | | | _ |
| 2,6,-di-tert- | 128-37-0 | Water flea | Experimental | 48 hours | EC50 | 0.48 mg/l |
| Butyl-p-cresol | | | - | | | _ |
| 2,6,-di-tert- | 128-37-0 | Zebra Fish | Experimental | 96 hours | No tox obs at | >100 mg/l |
| Butyl-p-cresol | | | - | | lmt of water sol | |
| 2,6,-di-tert- | 128-37-0 | Green algae | Experimental | 72 hours | EC10 | 0.4 mg/l |
| Butyl-p-cresol | | | - | | | _ |
| 2,6,-di-tert- | 128-37-0 | Medaka | Experimental | 42 days | NOEC | 0.053 mg/l |
| Butyl-p-cresol | | | 1 | 5 | | C C |
| 2,6,-di-tert- | 128-37-0 | Water flea | Experimental | 21 days | NOEC | 0.023 mg/l |
| Butyl-p-cresol | | | 1 | 5 | | 2 |
| N,N-Dimethyl- | 99-97-8 | Green algae | Estimated | 72 hours | EC50 | 22 mg/l |
| p-toluidine | | | | | | e |
| N,N-Dimethyl- | 99-97-8 | Water flea | Estimated | 48 hours | EC50 | 13.7 mg/l |
| p-toluidine | | | | | | |
| | 99-97-8 | Fathead | Experimental | 96 hours | LC50 | 46 mg/l |
| p-toluidine | | Minnow | P | | | |
| Titanium | 13463-67-7 | Activated | Experimental | 3 hours | NOEC | >=1,000 mg/l |
| Dioxide | | sludge | I · · · · | | | |
| Titanium | 13463-67-7 | Diatom | Experimental | 72 hours | EC50 | >10,000 mg/l |
| Dioxide | | | | | | ,, |
| Titanium | 13463-67-7 | Fathead | Experimental | 96 hours | LC50 | >100 mg/l |
| Dioxide | | Minnow | | | | |
| Titanium | 13463-67-7 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Dioxide | | | | | | |
| Titanium | 13463-67-7 | Diatom | Experimental | 72 hours | NOEC | 5,600 mg/l |
| Dioxide | | | | , 2 110015 | | 5,000 mg/r |
| 2 10/1140 | 1 | 1 | 1 | 1 | 1 | 1 |

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/THC O2 evolution | OECD 301B - Mod. Sturm or CO2 |
|---|------------|---|---------|--------------------------------------|--|-----------------------------------|
| | 38640-62-9 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 81 %BOD/ThO D | OECD 301C - MITI (I) |
| Amorphous Silica | 68909-20-6 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Saccharin | 81-07-2 | Analogous Compound Biodegradation | 28 days | Biological Oxygen Demand | 32.09 %BOD/T hOD | OECD 301F - Manometric Respiro |
| Cumene Hydroperoxide | 80-15-9 | Experimental Biodegradation | 28 days | Biological Oxygen Demand | 0 %BOD/ThO D | OECD 301C - MITI (I) |
| 2,2'-(p- Tolylimino)diet hanol | 3077-12-1 | Estimated Biodegradation | 29 days | Carbon dioxide evolution | 1.5 %CO2 evolution/THC O2 evolution | OECD 301B - Mod. Sturm or CO2 |
| Acrylic Acid | 79-10-7 | Experimental Biodegradation | 28 days | Percent degraded | 81 %BOD/ThO D | OECD 301D - Closed Bottle Test |
| Acrylic Acid | 79-10-7 | Estimated Photolysis | | Photolytic half- life (in air) | 3.2 days (t 1/2) | |
| Acrylic Acid | 79-10-7 | Experimental Biodegradation | 3 days | Percent degraded | 72.9 %CO2 evolution/THC O2 evolution | |
| Ethylene Glycol | 107-21-1 | Experimental Biodegradation | 14 days | Biological Oxygen Demand | 90 %BOD/ThO D | OECD 301C - MITI (I) |
| Naphthalene, (1- methylethyl)- | 29253-36-9 | Experimental Biodegradation | 28 days | Carbon dioxide evolution | 63 %CO2 evolution/THC O2 evolution | OECD 310 CO2 Headspace |
| 1-Acetyl-2- Phenylhydrazin e | 114-83-0 | Analogous Compound Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 97 %removal of DOC | OECD 301E - Modif. OECD Screen |
| 2,6,-di-tert- Butyl-p-cresol | 128-37-0 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| N,N-Dimethyl- p-toluidine | 99-97-8 | Estimated Biodegradation | 14 days | Biological Oxygen Demand | 0 %BOD/ThO D | OECD 301C - MITI (I) |
| Titanium Dioxide | 13463-67-7 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |

12.3. Bioaccumulative potential

| Material | CAS No. | Test Type | Duration | Study Type | Test Result | Protocol |
|----------------|------------|----------------|----------|----------------|-------------|------------------|
| Triethylene | 109-16-0 | Experimental | | Log of | 2.3 | EC A.8 Partition |
| Glycol | | Bioconcentrati | | Octanol/H2O | | Coefficient |
| Dimethacrylate | | on | | part. coeff | | |
| Diisopropylnap | 38640-62-9 | Experimental | 36 days | Bioaccumulatio | 1800-6400 | OECD305- |

| hthalene | | BCF - Fish | | n Factor | | Bioconcentration |
|--------------------------------------|------------|--|---------|--------------------------------------|--------|-----------------------------------|
| Hydroxypropyl Methacrylate | 27813-02-1 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 0.97 | |
| Amorphous Silica | 68909-20-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Saccharin | 81-07-2 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | -0.024 | OECD 117 log Kow HPLC method |
| Cumene Hydroperoxide | 80-15-9 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 1.82 | |
| 2,2'-(p- Tolylimino)diet hanol | 3077-12-1 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 2.0 | |
| Acrylic Acid | 79-10-7 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 0.46 | OECD 107 log Kow shke flsk mtd |
| Ethylene Glycol | 107-21-1 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | -1.36 | |
| Naphthalene, (1- methylethyl)- | 29253-36-9 | Experimental BCF - Fish | 56 days | Bioaccumulatio n Factor | 870 | OECD305- Bioconcentration |
| 1-Acetyl-2- Phenylhydrazin e | 114-83-0 | Modeled BCF - Fish | | Bioaccumulatio n Factor | 5 | Catalogic™ |
| 2,6,-di-tert- Butyl-p-cresol | 128-37-0 | Experimental BCF - Fish | 56 days | Bioaccumulatio n Factor | 1277 | OECD305- Bioconcentration |
| | 99-97-8 | Experimental Bioconcentrati on | | Log of Octanol/H2O part. coeff | 1.73 | |
| Titanium Dioxide | 13463-67-7 | Experimental BCF - Fish | 42 days | Bioaccumulatio n Factor | 9.6 | |

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

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

SECTION 14: Transport Information

Marine Transport (IMDG)

UN Number: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: Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

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: Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. 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.

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