



## Safety Data Sheet

© 2026, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 06-8243-5  | <b>Version number:</b>  | 5.00       |
| <b>Issue Date:</b>     | 08/07/2026 | <b>Supersedes date:</b> | 04/07/2021 |

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### SECTION 1: Identification

#### 1.1. Product identifier

3M Primer 94

##### Product Identification Numbers

70-0160-5477-0      70-0160-5478-8      XT-0007-0061-4      XT-0007-0096-0

7000001584      7100003278      7012892835      7012892927

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

##### Recommended use

Adhesion promoter, Industrial use, Primer

For Industrial or Professional use only

#### 1.3. Supplier's details

**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland  
**Telephone:** (09) 477 4040  
**E Mail:** innovation@nz.mmm.com  
**Website:** 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

### SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Flammable Liquids: Category 2

Skin sensitisation: Category 1  
 Carcinogenicity: Category 2  
 Reproductive Toxicity: Category 1  
 Specific target organ toxicity – single exposure: Category 1  
 Specific target organ toxicity – repeated exposure: Category 1  
 Specific target organ toxicity – single exposure: Category 3 narcotic effects  
 Aspiration Hazard: Category 1  
 Hazardous to the aquatic environment acute: Category 1  
 Hazardous to the aquatic environment chronic: Category 3

## 2.2. Label elements

### SIGNAL WORD

Danger

### Symbols:

Flame | Exclamation mark | Health Hazard | Environment |

### Pictograms



### HAZARD STATEMENTS:

|      |                                                                                    |
|------|------------------------------------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                                                |
| H317 | May cause an allergic skin reaction.                                               |
| H351 | Suspected of causing cancer.                                                       |
| H360 | May damage fertility or the unborn child.                                          |
| H336 | May cause drowsiness or dizziness.                                                 |
| H304 | May be fatal if swallowed and enters airways.                                      |
| H370 | Causes damage to organs: sensory organs.                                           |
| H372 | Causes damage to organs through prolonged or repeated exposure: nervous system.    |
| H373 | May cause damage to organs through prolonged or repeated exposure: sensory organs. |
| H400 | Very toxic to aquatic life.                                                        |
| H412 | Harmful to aquatic life with long lasting effects.                                 |

### PRECAUTIONARY STATEMENTS

#### Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                                        |
| P202 | Do not handle until all safety precautions have been read and understood.                      |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed.                                                                 |
| P240 | Ground and bond container and receiving equipment.                                             |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment.                            |
| P242 | Use non-sparking tools.                                                                        |
| P243 | Take action to prevent static discharges.                                                      |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                                               |
| P264 | Wash exposed skin thoroughly after handling.                                                   |

|      |                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------|
| P270 | Do not eat, drink or smoke when using this product.                                                                 |
| P271 | Use only outdoors or in a well-ventilated area.                                                                     |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                                              |
| P273 | Avoid release to the environment.                                                                                   |
| P280 | Wear protective gloves, eye protection, face protection, and if needed, respiratory protection (see SDS Section 8). |

**Response**

|                    |                                                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------|
| P301 + P310        | If Swallowed: Immediately call the POISON CENTER or doctor.                                                                     |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                          |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                      |
| P308 + P313        | IF exposed or concerned: Get medical advice/attention.                                                                          |
| P314               | Get medical advice/attention if you feel unwell.                                                                                |
| P331               | Do NOT induce vomiting.                                                                                                         |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.                                                                |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.                                                                        |
| P370 + P378        | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |
| P391               | Collect spillage.                                                                                                               |

**Storage**

|             |                                              |
|-------------|----------------------------------------------|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405        | Store locked up.                             |

**Disposal**

|      |                                                                                    |
|------|------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container via an approved hazardous waste disposal contractor. |
|------|------------------------------------------------------------------------------------|

### SECTION 3: Composition/information on ingredients

| Ingredient                                        | CAS Nbr      | % by Weight |
|---------------------------------------------------|--------------|-------------|
| Cyclohexane                                       | 110-82-7     | 30 - 60     |
| Xylene                                            | 1330-20-7    | 15 - 40     |
| Ethanol                                           | 64-17-5      | 5 - 10      |
| Ethylbenzene                                      | 100-41-4     | < 10        |
| Chlorinated Polyolefin                            | 68609-36-9   | 1 - 5       |
| Acrylate Polymer                                  | Trade Secret | 1 - 5       |
| Ethyl acetate                                     | 141-78-6     | 1 - 5       |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3    | 0.1 - 1     |
| Methanol                                          | 67-56-1      | 0.1 - 1     |
| Epoxy Resin                                       | 25068-38-6   | 0.1 - 1     |
| Isopropyl Alcohol                                 | 67-63-0      | < 1         |
| Toluene                                           | 108-88-3     | < 0.3       |
| Chlorobenzene                                     | 108-90-7     | < 0.2       |
| Maleic anhydride                                  | 108-31-6     | < 0.02      |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### **If swallowed**

Do not induce vomiting. Get immediate medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details. 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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

### **5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode.

### **Hazardous Decomposition or By-Products**

#### **Substance**

Aldehydes.  
Formaldehyde  
Carbon monoxide.  
Carbon dioxide.  
Hydrogen Chloride

#### **Condition**

During combustion.  
During combustion.  
During combustion.  
During combustion.  
During combustion.

### **5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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.

### **5.4. Hazchem code: -3YE**

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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.

## 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

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

Contain spill. Cover spill area with a fire-extinguishing foam. 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 using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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

Refer to Section 15 - Controls for more information

## 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/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 oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidising agents.

## 7.3. Certified handler

Not required

# 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.

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>Agency</b>   | <b>Limit type</b>                                                                          | <b>Additional comments</b>                |
|-------------------|----------------|-----------------|--------------------------------------------------------------------------------------------|-------------------------------------------|
| Ethylbenzene      | 100-41-4       | ACGIH           | TWA:20 ppm                                                                                 | A3: Confirmed animal carcin., Ototoxicant |
| Ethylbenzene      | 100-41-4       | New Zealand WES | TWA(8 hours):88 mg/m <sup>3</sup> (20 ppm);STEL(15 minutes):176 mg/m <sup>3</sup> (40 ppm) | Ototoxicant, SKIN                         |
| Maleic anhydride  | 108-31-6       | ACGIH           | TWA(inhalable fraction and                                                                 | A4: Not class. as human                   |

|                   |           |                    |                                                                                                      |                                                    |
|-------------------|-----------|--------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------|
|                   |           |                    | vapor):0.01 mg/m <sup>3</sup>                                                                        | carcin,<br>Dermal/Respiratory<br>Sensitizer        |
| Maleic anhydride  | 108-31-6  | New Zealand<br>WES | TWA(inhalable fraction and<br>vapor)(8 hours):0.01<br>mg/m <sup>3</sup> (0.0025 ppm)                 | Capable of csng<br>resp/skin sens                  |
| Toluene           | 108-88-3  | ACGIH              | TWA:20 ppm                                                                                           | A4: Not class. as human<br>carcinogen, Ototoxicant |
| Toluene           | 108-88-3  | New Zealand<br>WES | TWA(8 hours):75 mg/m <sup>3</sup> (20<br>ppm);STEL(15 minutes):377<br>mg/m <sup>3</sup> (100 ppm)    | Ototoxicant, SKIN                                  |
| Chlorobenzene     | 108-90-7  | ACGIH              | TWA:10 ppm                                                                                           | A3: Confirmed animal<br>carcinogen.                |
| Chlorobenzene     | 108-90-7  | New Zealand<br>WES | TWA(8 hours):23<br>mg/m <sup>3</sup> (5 ppm);STEL(15<br>minutes):46 mg/m <sup>3</sup> (10 ppm)       |                                                    |
| Cyclohexane       | 110-82-7  | ACGIH              | TWA:100 ppm                                                                                          |                                                    |
| Cyclohexane       | 110-82-7  | New Zealand<br>WES | TWA(8 hours):350 mg/m <sup>3</sup> (100<br>ppm);STEL(15 minutes):1050<br>mg/m <sup>3</sup> (300 ppm) |                                                    |
| Xylene            | 1330-20-7 | ACGIH              | TWA:20 ppm                                                                                           | A4: Not class. as human<br>carcinogen              |
| Xylene            | 1330-20-7 | New Zealand<br>WES | TWA(8 hours):217 mg/m <sup>3</sup> (50<br>ppm)                                                       | Ototoxicant                                        |
| Ethyl acetate     | 141-78-6  | ACGIH              | TWA:400 ppm                                                                                          |                                                    |
| Ethyl acetate     | 141-78-6  | New Zealand<br>WES | TWA(8 hours):720 mg/m <sup>3</sup> (200<br>ppm)                                                      |                                                    |
| Ethanol           | 64-17-5   | ACGIH              | STEL:1000 ppm                                                                                        | A3: Confirmed animal<br>carcinogen.                |
| Ethanol           | 64-17-5   | New Zealand<br>WES | TWA(8 hours):380 mg/m <sup>3</sup> (200<br>ppm);STEL(15 minutes):1520<br>mg/m <sup>3</sup> (800 ppm) | Ototoxicant                                        |
| Methanol          | 67-56-1   | ACGIH              | TWA:200 ppm;STEL:250 ppm                                                                             | Danger of cutaneous<br>absorption                  |
| Methanol          | 67-56-1   | New Zealand<br>WES | TWA(8 hours):262 mg/m <sup>3</sup> (200<br>ppm);STEL(15 minutes):328<br>mg/m <sup>3</sup> (250 ppm)  | Skin                                               |
| Isopropyl Alcohol | 67-63-0   | ACGIH              | TWA:200 ppm;STEL:400 ppm                                                                             | A4: Not class. as human<br>carcinogen              |
| Isopropyl Alcohol | 67-63-0   | New Zealand<br>WES | TWA(8 hours):491 mg/m <sup>3</sup> (200<br>ppm);STEL(15 minutes):983<br>mg/m <sup>3</sup> (400 ppm)  |                                                    |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m<sup>3</sup>: milligrams per cubic metre

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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

Use explosion-proof ventilation equipment. Provide appropriate local exhaust ventilation on open containers.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Safety glasses with side shields.

Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Select and use gloves according to AS/NZ 2161.

#### 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

Half facepiece or full facepiece supplied-air respirator.

Organic vapor cartridges may have short service life.

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                          |                    |
|----------------------------------------------------------|--------------------|
| <b>Physical state</b>                                    | Liquid.            |
| <b>Specific Physical Form:</b>                           | Liquid.            |
| <b>Colour</b>                                            | Amber              |
| <b>Odour</b>                                             | Mild Solvent       |
| <b>Odour threshold</b>                                   | No data available. |
| <b>pH</b>                                                | Not applicable.    |
| <b>Melting point/Freezing point</b>                      | Not applicable.    |
| <b>Boiling point/Initial boiling point/Boiling range</b> | 76.7 °C            |

|                                                      |                                                             |
|------------------------------------------------------|-------------------------------------------------------------|
| <b>Flash point</b>                                   | -17.2 °C [ <i>Test Method</i> :Closed Cup]                  |
| <b>Evaporation rate</b>                              | <i>No data available.</i>                                   |
| <b>Flammability</b>                                  | Flammable Liquid: Category 2.                               |
| <b>Flammable Limits(LEL)</b>                         | 1 %                                                         |
| <b>Flammable Limits(UEL)</b>                         | 11 %                                                        |
| <b>Vapour pressure</b>                               | 68 mm Hg [ @ 68 °F]                                         |
| <b>Relative Vapour Density</b>                       | <i>No data available.</i>                                   |
| <b>Density</b>                                       | 0.82 g/ml                                                   |
| <b>Relative density</b>                              | 0.82 [ @ 25 °C ] [ <i>Ref Std</i> :WATER=1]                 |
| <b>Water solubility</b>                              | Negligible                                                  |
| <b>Solubility- non-water</b>                         | <i>No data available.</i>                                   |
| <b>Partition coefficient: n-octanol/water</b>        | <i>No data available.</i>                                   |
| <b>Autoignition temperature</b>                      | <i>No data available.</i>                                   |
| <b>Decomposition temperature</b>                     | <i>No data available.</i>                                   |
| <b>Kinematic Viscosity</b>                           | 12.2 mm <sup>2</sup> /sec                                   |
| <b>Volatile organic compounds (VOC)</b>              | <=97 % [ <i>Test Method</i> :calculated SCAQMD rule 443.1]  |
| <b>Percent volatile</b>                              | 95.3 - 97 % weight [ <i>Test Method</i> :Estimated]         |
| <b>VOC less H<sub>2</sub>O &amp; exempt solvents</b> | 781 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] |
| <b>Molecular weight</b>                              | <i>No data available.</i>                                   |

**Particle Characteristics** *Not applicable.*

## 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 polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

Sparks and/or flames.

### 10.5 Incompatible materials

Strong oxidising 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 labelling, 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

May be harmful if inhaled. 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

May be harmful in contact with skin.

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

#### Eye contact

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

#### Ingestion

Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

### Additional Health Effects:

#### Single exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### Prolonged or repeated exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

#### Reproductive/Developmental Toxicity:

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

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

### Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

### 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 >2,000 - =5,000 mg/kg |
| Overall product                                   | Inhalation-Vapor(4 hr)     |            | No data available; calculated ATE >20 - =50 mg/l        |
| Overall product                                   | Ingestion                  |            | No data available; calculated ATE >5,000 mg/kg          |
| Cyclohexane                                       | Dermal                     | Rat        | LD50 > 2,000 mg/kg                                      |
| Cyclohexane                                       | Inhalation-Vapor (4 hours) | Rat        | LC50 > 32.9 mg/l                                        |
| Cyclohexane                                       | Ingestion                  | Rat        | LD50 6,200 mg/kg                                        |
| Xylene                                            | Dermal                     | Rabbit     | LD50 > 4,200 mg/kg                                      |
| Xylene                                            | Inhalation-Vapor (4 hours) | Rat        | LC50 29 mg/l                                            |
| Xylene                                            | Ingestion                  | Rat        | LD50 3,523 mg/kg                                        |
| Ethanol                                           | Dermal                     | Rabbit     | LD50 > 15,800 mg/kg                                     |
| Ethanol                                           | Inhalation-Vapor (4 hours) | Rat        | LC50 124.7 mg/l                                         |
| Ethanol                                           | Ingestion                  | Rat        | LD50 17,800 mg/kg                                       |
| Ethylbenzene                                      | Dermal                     | Rabbit     | LD50 15,433 mg/kg                                       |
| Ethylbenzene                                      | Inhalation-Vapor (4 hours) | Rat        | LC50 17.4 mg/l                                          |
| Ethylbenzene                                      | Ingestion                  | Rat        | LD50 4,769 mg/kg                                        |
| Ethyl acetate                                     | Dermal                     | Rabbit     | LD50 > 18,000 mg/kg                                     |
| Ethyl acetate                                     | Inhalation-Vapor (4 hours) | Rat        | LC50 70.5 mg/l                                          |
| Ethyl acetate                                     | Ingestion                  | Rat        | LD50 5,620 mg/kg                                        |
| Chlorinated Polyolefin                            | Dermal                     | Guinea pig | LD50 > 1,000 mg/kg                                      |
| Chlorinated Polyolefin                            | Ingestion                  | Rat        | LD50 > 3,200 mg/kg                                      |
| Isopropyl Alcohol                                 | Dermal                     | Rabbit     | LD50 12,870 mg/kg                                       |
| Isopropyl Alcohol                                 | Inhalation-Vapor (4 hours) | Rat        | LC50 72.6 mg/l                                          |
| Isopropyl Alcohol                                 | Ingestion                  | Rat        | LD50 4,710 mg/kg                                        |
| Methanol                                          | Dermal                     |            | LD50 estimated to be 1,000 - 2,000 mg/kg                |
| Methanol                                          | Inhalation-Vapor           |            | LC50 estimated to be 10 - 20 mg/l                       |
| Methanol                                          | Ingestion                  |            | LD50 estimated to be 50 - 300 mg/kg                     |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | Dermal                     | Rabbit     | LD50 6,700 mg/kg                                        |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | Inhalation-Vapor (4 hours) | Rat        | LC50 > 7 mg/l                                           |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | Ingestion                  | Rat        | LD50 13,100 mg/kg                                       |
| Epoxy Resin                                       | Dermal                     | Rat        | LD50 > 1,600 mg/kg                                      |
| Epoxy Resin                                       | Ingestion                  | Rat        | LD50 > 1,000 mg/kg                                      |
| Toluene                                           | Dermal                     | Rat        | LD50 12,000 mg/kg                                       |
| Toluene                                           | Inhalation-Vapor (4 hours) | Rat        | LC50 30 mg/l                                            |
| Toluene                                           | Ingestion                  | Rat        | LD50 5,550 mg/kg                                        |
| Chlorobenzene                                     | Dermal                     | Rabbit     | LD50 2,212 mg/kg                                        |
| Chlorobenzene                                     | Inhalation-Vapor (4 hours) | Rat        | LC50 16.7 mg/l                                          |
| Chlorobenzene                                     | Ingestion                  | Rat        | LD50 1,419 mg/kg                                        |
| Maleic anhydride                                  | Dermal                     | Rabbit     | LD50 2,620 mg/kg                                        |
| Maleic anhydride                                  | Ingestion                  | Rat        | LD50 1,030 mg/kg                                        |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                              | Species                 | Value                     |
|---------------------------------------------------|-------------------------|---------------------------|
| Cyclohexane                                       | Rabbit                  | Mild irritant             |
| Xylene                                            | Rabbit                  | Mild irritant             |
| Ethanol                                           | Rabbit                  | No significant irritation |
| Ethylbenzene                                      | Rabbit                  | Mild irritant             |
| Ethyl acetate                                     | Rabbit                  | Minimal irritation        |
| Chlorinated Polyolefin                            | Guinea pig              | No significant irritation |
| Isopropyl Alcohol                                 | Multiple animal species | No significant irritation |
| Methanol                                          | Rabbit                  | Mild irritant             |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | Rabbit                  | Minimal irritation        |
| Epoxy Resin                                       | Rabbit                  | Mild irritant             |
| Toluene                                           | Rabbit                  | Irritant                  |
| Chlorobenzene                                     | Rabbit                  | Irritant                  |
| Maleic anhydride                                  | Human and animal        | Corrosive                 |

### Serious Eye Damage/Irritation

| Name                                              | Species                | Value                     |
|---------------------------------------------------|------------------------|---------------------------|
| Cyclohexane                                       | Rabbit                 | Mild irritant             |
| Xylene                                            | Rabbit                 | Mild irritant             |
| Ethanol                                           | Rabbit                 | Severe irritant           |
| Ethylbenzene                                      | Rabbit                 | Moderate irritant         |
| Ethyl acetate                                     | Rabbit                 | Mild irritant             |
| Chlorinated Polyolefin                            | Professional judgement | Mild irritant             |
| Isopropyl Alcohol                                 | Rabbit                 | Severe irritant           |
| Methanol                                          | Rabbit                 | Moderate irritant         |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | Rabbit                 | No significant irritation |
| Epoxy Resin                                       | Rabbit                 | Moderate irritant         |
| Toluene                                           | Rabbit                 | Moderate irritant         |
| Chlorobenzene                                     | Rabbit                 | Mild irritant             |
| Maleic anhydride                                  | Rabbit                 | Corrosive                 |

### Sensitisation:

#### Skin Sensitisation

| Name                                              | Species           | Value          |
|---------------------------------------------------|-------------------|----------------|
| Ethanol                                           | Human             | Not classified |
| Ethylbenzene                                      | Human             | Not classified |
| Ethyl acetate                                     | Guinea pig        | Not classified |
| Isopropyl Alcohol                                 | Guinea pig        | Not classified |
| Methanol                                          | Guinea pig        | Not classified |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | similar compounds | Sensitising    |
| Epoxy Resin                                       | Human and animal  | Sensitising    |
| Toluene                                           | Guinea pig        | Not classified |
| Chlorobenzene                                     | Multiple          | Not classified |

|                  |                         |             |
|------------------|-------------------------|-------------|
|                  | animal species          |             |
| Maleic anhydride | Multiple animal species | Sensitising |

### Respiratory Sensitisation

| Name             | Species | Value          |
|------------------|---------|----------------|
| Epoxy Resin      | Human   | Not classified |
| Maleic anhydride | Human   | Sensitising    |

### Germ Cell Mutagenicity

| Name                                                          | Route    | Value                                                                        |
|---------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Cyclohexane                                                   | In Vitro | Not mutagenic                                                                |
| Cyclohexane                                                   | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Xylene                                                        | In Vitro | Not mutagenic                                                                |
| Xylene                                                        | In vivo  | Not mutagenic                                                                |
| Ethanol                                                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethanol                                                       | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Ethylbenzene                                                  | In vivo  | Not mutagenic                                                                |
| Ethylbenzene                                                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl acetate                                                 | In Vitro | Not mutagenic                                                                |
| Ethyl acetate                                                 | In vivo  | Not mutagenic                                                                |
| Isopropyl Alcohol                                             | In Vitro | Not mutagenic                                                                |
| Isopropyl Alcohol                                             | In vivo  | Not mutagenic                                                                |
| Methanol                                                      | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Methanol                                                      | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Beta-(3,4-Epoxyoctahydro-2H-pyran-2-yl)ethyltrimethoxy Silane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin                                                   | In vivo  | Not mutagenic                                                                |
| Epoxy Resin                                                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                                       | In Vitro | Not mutagenic                                                                |
| Toluene                                                       | In vivo  | Not mutagenic                                                                |
| Chlorobenzene                                                 | In Vitro | Not mutagenic                                                                |
| Maleic anhydride                                              | In vivo  | Not mutagenic                                                                |
| Maleic anhydride                                              | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name              | Route      | Species                 | Value                                                                        |
|-------------------|------------|-------------------------|------------------------------------------------------------------------------|
| Xylene            | Dermal     | Rat                     | Not carcinogenic                                                             |
| Xylene            | Ingestion  | Multiple animal species | Not carcinogenic                                                             |
| Xylene            | Inhalation | Human                   | Some positive data exist, but the data are not sufficient for classification |
| Ethanol           | Ingestion  | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Ethylbenzene      | Inhalation | Multiple animal species | Carcinogenic.                                                                |
| Isopropyl Alcohol | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Methanol          | Inhalation | Multiple                | Not carcinogenic                                                             |

|                                                   |            | animal species          |                                                                              |
|---------------------------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin                                       | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                           | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                           | Ingestion  | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                           | Inhalation | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Chlorobenzene                                     | Ingestion  | Multiple animal species | Not carcinogenic                                                             |

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name                                              | Route      | Value                                  | Species                 | Test result           | Exposure Duration            |
|---------------------------------------------------|------------|----------------------------------------|-------------------------|-----------------------|------------------------------|
| Cyclohexane                                       | Inhalation | Not classified for female reproduction | Rat                     | NOAEL 24 mg/l         | 2 generation                 |
| Cyclohexane                                       | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 24 mg/l         | 2 generation                 |
| Cyclohexane                                       | Inhalation | Not classified for development         | Rat                     | NOAEL 6.9 mg/l        | 2 generation                 |
| Xylene                                            | Inhalation | Not classified for female reproduction | Human                   | NOAEL Not available   | occupational exposure        |
| Xylene                                            | Ingestion  | Not classified for development         | Mouse                   | NOAEL Not available   | during organogenesis         |
| Xylene                                            | Inhalation | Not classified for development         | Multiple animal species | NOAEL Not available   | during gestation             |
| Ethanol                                           | Inhalation | Not classified for development         | Rat                     | NOAEL 38 mg/l         | during gestation             |
| Ethanol                                           | Ingestion  | Not classified for development         | Rat                     | NOAEL 5,200 mg/kg/day | premating & during gestation |
| Ethylbenzene                                      | Inhalation | Not classified for development         | Rat                     | NOAEL 4.3 mg/l        | premating & during gestation |
| Isopropyl Alcohol                                 | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 1,000 mg/kg/day | 2 generation                 |
| Isopropyl Alcohol                                 | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 500 mg/kg/day   | 2 generation                 |
| Isopropyl Alcohol                                 | Ingestion  | Not classified for development         | Rat                     | NOAEL 400 mg/kg/day   | during organogenesis         |
| Isopropyl Alcohol                                 | Inhalation | Not classified for development         | Rat                     | LOAEL 9 mg/l          | during gestation             |
| Methanol                                          | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 1,600 mg/kg/day | 21 days                      |
| Methanol                                          | Ingestion  | Toxic to development                   | Mouse                   | LOAEL 4,000 mg/kg/day | during organogenesis         |
| Methanol                                          | Inhalation | Toxic to development                   | Mouse                   | NOAEL 1.3 mg/l        | during organogenesis         |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | Ingestion  | Not classified for development         | Rabbit                  | NOAEL 0.27 mg/kg/day  | during organogenesis         |
| Epoxy Resin                                       | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 750 mg/kg/day   | 2 generation                 |
| Epoxy Resin                                       | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 750 mg/kg/day   | 2 generation                 |
| Epoxy Resin                                       | Dermal     | Not classified for development         | Rabbit                  | NOAEL 300             | during                       |

|                  |            |                                        |       | mg/kg/day           | organogenesis          |
|------------------|------------|----------------------------------------|-------|---------------------|------------------------|
| Epoxy Resin      | Ingestion  | Not classified for development         | Rat   | NOAEL 750 mg/kg/day | 2 generation           |
| Toluene          | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure  |
| Toluene          | Inhalation | Not classified for male reproduction   | Rat   | NOAEL 2.3 mg/l      | 1 generation           |
| Toluene          | Ingestion  | Toxic to development                   | Rat   | LOAEL 520 mg/kg/day | during gestation       |
| Toluene          | Inhalation | Toxic to development                   | Human | NOAEL Not available | poisoning and/or abuse |
| Chlorobenzene    | Inhalation | Not classified for female reproduction | Rat   | NOAEL 2.07 mg/l     | 2 generation           |
| Chlorobenzene    | Ingestion  | Not classified for development         | Rat   | NOAEL 300 mg/kg/day | during organogenesis   |
| Chlorobenzene    | Inhalation | Not classified for development         | Rat   | NOAEL 2.07 mg/l     | 2 generation           |
| Chlorobenzene    | Inhalation | Not classified for male reproduction   | Rat   | NOAEL 2.07 mg/l     | 2 generation           |
| Maleic anhydride | Ingestion  | Not classified for female reproduction | Rat   | NOAEL 55 mg/kg/day  | 2 generation           |
| Maleic anhydride | Ingestion  | Not classified for male reproduction   | Rat   | NOAEL 55 mg/kg/day  | 2 generation           |
| Maleic anhydride | Ingestion  | Not classified for development         | Rat   | NOAEL 140 mg/kg/day | during organogenesis   |

## Lactation

| Name   | Route     | Species | Value                                          |
|--------|-----------|---------|------------------------------------------------|
| Xylene | Ingestion | Mouse   | Not classified for effects on or via lactation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name        | Route      | Target Organ(s)                   | Value                                                                        | Species                 | Test result         | Exposure Duration |
|-------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|
| Cyclohexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal        | NOAEL Not available |                   |
| Cyclohexane | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal        | NOAEL Not available |                   |
| Cyclohexane | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgement  | NOAEL Not available |                   |
| Xylene      | Inhalation | auditory system                   | Causes damage to organs                                                      | Rat                     | LOAEL 6.3 mg/l      | 8 hours           |
| Xylene      | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                   |
| Xylene      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                   |
| Xylene      | Inhalation | eyes                              | Not classified                                                               | Rat                     | NOAEL 3.5 mg/l      | not available     |
| Xylene      | Inhalation | liver                             | Not classified                                                               | Multiple animal species | NOAEL Not available |                   |
| Xylene      | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Multiple animal species | NOAEL Not available |                   |
| Xylene      | Ingestion  | eyes                              | Not classified                                                               | Rat                     | NOAEL 250 mg/kg     | not applicable    |
| Ethanol     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available     |

|                   |            |                                   |                                                                              |                         |                     |                        |
|-------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|------------------------|
| Ethanol           | Inhalation | central nervous system depression | Not classified                                                               | Human and animal        | NOAEL not available |                        |
| Ethanol           | Ingestion  | central nervous system depression | Not classified                                                               | Multiple animal species | NOAEL not available |                        |
| Ethanol           | Ingestion  | kidney and/or bladder             | Not classified                                                               | Dog                     | NOAEL 3,000 mg/kg   |                        |
| Ethylbenzene      | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Ethylbenzene      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal        | NOAEL Not available |                        |
| Ethyl acetate     | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Ethyl acetate     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Ethyl acetate     | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Isopropyl Alcohol | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Isopropyl Alcohol | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Isopropyl Alcohol | Inhalation | auditory system                   | Not classified                                                               | Guinea pig              | NOAEL 13.4 mg/l     | 24 hours               |
| Isopropyl Alcohol | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | poisoning and/or abuse |
| Methanol          | Inhalation | blindness                         | Causes damage to organs                                                      | Human                   | NOAEL Not available | occupational exposure  |
| Methanol          | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | not available          |
| Methanol          | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL Not available | 6 hours                |
| Methanol          | Ingestion  | blindness                         | Causes damage to organs                                                      | Human                   | NOAEL Not available | poisoning and/or abuse |
| Methanol          | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | poisoning and/or abuse |
| Epoxy Resin       | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                        |
| Toluene           | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Toluene           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Toluene           | Inhalation | immune system                     | Not classified                                                               | Mouse                   | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene           | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | poisoning and/or abuse |
| Chlorobenzene     | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| Chlorobenzene     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available | occupational exposure  |
| Maleic anhydride  | Inhalation | respiratory irritation            | May cause respiratory irritation                                             | Human                   | NOAEL Not available |                        |

### Specific Target Organ Toxicity - repeated exposure

| Name        | Route      | Target Organ(s) | Value          | Species | Test result    | Exposure Duration |
|-------------|------------|-----------------|----------------|---------|----------------|-------------------|
| Cyclohexane | Inhalation | liver           | Not classified | Rat     | NOAEL 24 mg/l  | 90 days           |
| Cyclohexane | Inhalation | auditory system | Not classified | Rat     | NOAEL 1.7 mg/l | 90 days           |

|             |            |                                 |                                                                  |                         |                       |           |
|-------------|------------|---------------------------------|------------------------------------------------------------------|-------------------------|-----------------------|-----------|
| Cyclohexane | Inhalation | kidney and/or bladder           | Not classified                                                   | Rabbit                  | NOAEL 2.7 mg/l        | 10 weeks  |
| Cyclohexane | Inhalation | hematopoietic system            | Not classified                                                   | Mouse                   | NOAEL 24 mg/l         | 14 weeks  |
| Cyclohexane | Inhalation | peripheral nervous system       | Not classified                                                   | Rat                     | NOAEL 8.6 mg/l        | 30 weeks  |
| Xylene      | Inhalation | nervous system                  | Causes damage to organs through prolonged or repeated exposure   | Rat                     | LOAEL 0.4 mg/l        | 4 weeks   |
| Xylene      | Inhalation | auditory system                 | May cause damage to organs though prolonged or repeated exposure | Rat                     | LOAEL 7.8 mg/l        | 5 days    |
| Xylene      | Inhalation | liver                           | Not classified                                                   | Multiple animal species | NOAEL Not available   |           |
| Xylene      | Inhalation | heart                           | Not classified                                                   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks  |
| Xylene      | Inhalation | endocrine system                | Not classified                                                   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks  |
| Xylene      | Inhalation | gastrointestinal tract          | Not classified                                                   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks  |
| Xylene      | Inhalation | hematopoietic system            | Not classified                                                   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks  |
| Xylene      | Inhalation | muscles                         | Not classified                                                   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks  |
| Xylene      | Inhalation | kidney and/or bladder           | Not classified                                                   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks  |
| Xylene      | Inhalation | respiratory system              | Not classified                                                   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks  |
| Xylene      | Ingestion  | auditory system                 | Not classified                                                   | Rat                     | NOAEL 900 mg/kg/day   | 2 weeks   |
| Xylene      | Ingestion  | kidney and/or bladder           | Not classified                                                   | Rat                     | NOAEL 1,500 mg/kg/day | 90 days   |
| Xylene      | Ingestion  | liver                           | Not classified                                                   | Multiple animal species | NOAEL Not available   |           |
| Xylene      | Ingestion  | heart                           | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene      | Ingestion  | skin                            | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene      | Ingestion  | endocrine system                | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene      | Ingestion  | bone, teeth, nails, and/or hair | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene      | Ingestion  | hematopoietic system            | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene      | Ingestion  | immune system                   | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene      | Ingestion  | nervous system                  | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Xylene      | Ingestion  | respiratory system              | Not classified                                                   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |
| Ethanol     | Inhalation | liver                           | Some positive data exist, but the                                | Rabbit                  | LOAEL 124             | 365 days  |

|                   |            |                                 |                                                                              |                         |                       |           |
|-------------------|------------|---------------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|-----------|
|                   |            |                                 | data are not sufficient for classification                                   |                         | mg/l                  |           |
| Ethanol           | Inhalation | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 25 mg/l         | 14 days   |
| Ethanol           | Inhalation | immune system                   | Not classified                                                               | Rat                     | NOAEL 25 mg/l         | 14 days   |
| Ethanol           | Ingestion  | liver                           | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 8,000 mg/kg/day | 4 months  |
| Ethanol           | Ingestion  | kidney and/or bladder           | Not classified                                                               | Dog                     | NOAEL 3,000 mg/kg/day | 7 days    |
| Ethylbenzene      | Inhalation | auditory system                 | May cause damage to organs though prolonged or repeated exposure             | Rat                     | LOAEL 0.9 mg/l        | 13 weeks  |
| Ethylbenzene      | Inhalation | kidney and/or bladder           | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1.1 mg/l        | 2 years   |
| Ethylbenzene      | Inhalation | liver                           | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 1.1 mg/l        | 103 weeks |
| Ethylbenzene      | Inhalation | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 3.4 mg/l        | 28 days   |
| Ethylbenzene      | Inhalation | endocrine system                | Not classified                                                               | Mouse                   | NOAEL 3.3 mg/l        | 103 weeks |
| Ethylbenzene      | Inhalation | gastrointestinal tract          | Not classified                                                               | Rat                     | NOAEL 3.3 mg/l        | 2 years   |
| Ethylbenzene      | Inhalation | bone, teeth, nails, and/or hair | Not classified                                                               | Multiple animal species | NOAEL 4.2 mg/l        | 90 days   |
| Ethylbenzene      | Inhalation | muscles                         | Not classified                                                               | Multiple animal species | NOAEL 4.2 mg/l        | 90 days   |
| Ethylbenzene      | Inhalation | heart                           | Not classified                                                               | Multiple animal species | NOAEL 3.3 mg/l        | 2 years   |
| Ethylbenzene      | Inhalation | immune system                   | Not classified                                                               | Multiple animal species | NOAEL 3.3 mg/l        | 2 years   |
| Ethylbenzene      | Inhalation | respiratory system              | Not classified                                                               | Multiple animal species | NOAEL 3.3 mg/l        | 2 years   |
| Ethylbenzene      | Ingestion  | liver                           | Not classified                                                               | Rat                     | NOAEL 680 mg/kg/day   | 6 months  |
| Ethylbenzene      | Ingestion  | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 680 mg/kg/day   | 6 months  |
| Ethyl acetate     | Inhalation | endocrine system                | Not classified                                                               | Rat                     | NOAEL 0.043 mg/l      | 90 days   |
| Ethyl acetate     | Inhalation | liver                           | Not classified                                                               | Rat                     | NOAEL 0.043 mg/l      | 90 days   |
| Ethyl acetate     | Inhalation | nervous system                  | Not classified                                                               | Rat                     | NOAEL 0.043 mg/l      | 90 days   |
| Ethyl acetate     | Inhalation | hematopoietic system            | Not classified                                                               | Rabbit                  | LOAEL 16 mg/l         | 40 days   |
| Ethyl acetate     | Ingestion  | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 3,600 mg/kg/day | 90 days   |
| Ethyl acetate     | Ingestion  | liver                           | Not classified                                                               | Rat                     | NOAEL 3,600 mg/kg/day | 90 days   |
| Ethyl acetate     | Ingestion  | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 3,600 mg/kg/day | 90 days   |
| Isopropyl Alcohol | Inhalation | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 12.3 mg/l       | 24 months |
| Isopropyl Alcohol | Inhalation | nervous system                  | Not classified                                                               | Rat                     | NOAEL 12 mg/l         | 13 weeks  |
| Isopropyl Alcohol | Ingestion  | kidney and/or                   | Not classified                                                               | Rat                     | NOAEL 400             | 12 weeks  |

|             |            |                                 |                                                                              |                         |                       |                        |
|-------------|------------|---------------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|------------------------|
|             |            | bladder                         |                                                                              |                         | mg/kg/day             |                        |
| Methanol    | Inhalation | liver                           | Not classified                                                               | Rat                     | NOAEL 6.55 mg/l       | 4 weeks                |
| Methanol    | Inhalation | respiratory system              | Not classified                                                               | Rat                     | NOAEL 13.1 mg/l       | 6 weeks                |
| Methanol    | Ingestion  | liver                           | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day | 90 days                |
| Methanol    | Ingestion  | nervous system                  | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day | 90 days                |
| Epoxy Resin | Dermal     | liver                           | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 2 years                |
| Epoxy Resin | Dermal     | nervous system                  | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks               |
| Epoxy Resin | Ingestion  | auditory system                 | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 28 days                |
| Epoxy Resin | Ingestion  | heart                           | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 28 days                |
| Epoxy Resin | Ingestion  | endocrine system                | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 28 days                |
| Epoxy Resin | Ingestion  | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 28 days                |
| Epoxy Resin | Ingestion  | liver                           | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 28 days                |
| Epoxy Resin | Ingestion  | eyes                            | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 28 days                |
| Epoxy Resin | Ingestion  | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 28 days                |
| Toluene     | Inhalation | auditory system                 | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene     | Inhalation | nervous system                  | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene     | Inhalation | eyes                            | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene     | Inhalation | olfactory system                | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene     | Inhalation | respiratory system              | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2.3 mg/l        | 15 months              |
| Toluene     | Inhalation | heart                           | Not classified                                                               | Rat                     | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene     | Inhalation | liver                           | Not classified                                                               | Rat                     | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene     | Inhalation | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene     | Inhalation | endocrine system                | Not classified                                                               | Rat                     | NOAEL 1.1 mg/l        | 4 weeks                |
| Toluene     | Inhalation | immune system                   | Not classified                                                               | Mouse                   | NOAEL Not available   | 20 days                |
| Toluene     | Inhalation | bone, teeth, nails, and/or hair | Not classified                                                               | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks                |
| Toluene     | Inhalation | hematopoietic system            | Not classified                                                               | Human                   | NOAEL Not available   | occupational exposure  |
| Toluene     | Inhalation | vascular system                 | Not classified                                                               | Human                   | NOAEL Not available   | occupational exposure  |
| Toluene     | Inhalation | gastrointestinal tract          | Not classified                                                               | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks               |

|                  |            |                        |                                                                              |                         |                       |              |
|------------------|------------|------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|--------------|
| Toluene          | Ingestion  | nervous system         | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks     |
| Toluene          | Ingestion  | heart                  | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks     |
| Toluene          | Ingestion  | liver                  | Not classified                                                               | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks     |
| Toluene          | Ingestion  | kidney and/or bladder  | Not classified                                                               | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks     |
| Toluene          | Ingestion  | hematopoietic system   | Not classified                                                               | Mouse                   | NOAEL 600 mg/kg/day   | 14 days      |
| Toluene          | Ingestion  | endocrine system       | Not classified                                                               | Mouse                   | NOAEL 105 mg/kg/day   | 28 days      |
| Toluene          | Ingestion  | immune system          | Not classified                                                               | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks      |
| Chlorobenzene    | Inhalation | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 0.69 mg/l       | 2 generation |
| Chlorobenzene    | Inhalation | liver                  | Not classified                                                               | Rat                     | NOAEL 2.1 mg/l        | 2 generation |
| Chlorobenzene    | Inhalation | blood                  | Not classified                                                               | Rat                     | NOAEL 0.35 mg/l       | 24 weeks     |
| Chlorobenzene    | Ingestion  | bone marrow            | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 250 mg/kg/day   | 13 weeks     |
| Chlorobenzene    | Ingestion  | liver                  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 188 mg/kg/day   | 192 days     |
| Chlorobenzene    | Ingestion  | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 125 mg/kg/day   | 13 weeks     |
| Chlorobenzene    | Ingestion  | immune system          | Not classified                                                               | Rat                     | NOAEL 750 mg/kg/day   | 13 weeks     |
| Maleic anhydride | Inhalation | respiratory system     | Causes damage to organs through prolonged or repeated exposure               | Rat                     | LOAEL 0.0011 mg/l     | 6 months     |
| Maleic anhydride | Inhalation | endocrine system       | Not classified                                                               | Rat                     | NOAEL 0.0098 mg/l     | 6 months     |
| Maleic anhydride | Inhalation | hematopoietic system   | Not classified                                                               | Rat                     | NOAEL 0.0098 mg/l     | 6 months     |
| Maleic anhydride | Inhalation | nervous system         | Not classified                                                               | Rat                     | NOAEL 0.0098 mg/l     | 6 months     |
| Maleic anhydride | Inhalation | kidney and/or bladder  | Not classified                                                               | Rat                     | NOAEL 0.0098 mg/l     | 6 months     |
| Maleic anhydride | Inhalation | heart                  | Not classified                                                               | Rat                     | NOAEL 0.0098 mg/l     | 6 months     |
| Maleic anhydride | Inhalation | liver                  | Not classified                                                               | Rat                     | NOAEL 0.0098 mg/l     | 6 months     |
| Maleic anhydride | Inhalation | eyes                   | Not classified                                                               | Rat                     | NOAEL 0.0098 mg/l     | 6 months     |
| Maleic anhydride | Ingestion  | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 55 mg/kg/day    | 80 days      |
| Maleic anhydride | Ingestion  | liver                  | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 250 mg/kg/day   | 183 days     |
| Maleic anhydride | Ingestion  | heart                  | Not classified                                                               | Rat                     | NOAEL 600 mg/kg/day   | 183 days     |
| Maleic anhydride | Ingestion  | nervous system         | Not classified                                                               | Rat                     | NOAEL 600 mg/kg/day   | 183 days     |
| Maleic anhydride | Ingestion  | gastrointestinal tract | Not classified                                                               | Rat                     | NOAEL 150 mg/kg/day   | 80 days      |
| Maleic anhydride | Ingestion  | hematopoietic system   | Not classified                                                               | Dog                     | NOAEL 60 mg/kg/day    | 90 days      |
| Maleic anhydride | Ingestion  | skin                   | Not classified                                                               | Rat                     | NOAEL 150             | 80 days      |

|                  |           |                    |                |     | mg/kg/day           |         |
|------------------|-----------|--------------------|----------------|-----|---------------------|---------|
| Maleic anhydride | Ingestion | endocrine system   | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| Maleic anhydride | Ingestion | immune system      | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| Maleic anhydride | Ingestion | eyes               | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| Maleic anhydride | Ingestion | respiratory system | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |

### Aspiration Hazard

| Name         | Value             |
|--------------|-------------------|
| Cyclohexane  | Aspiration hazard |
| Xylene       | Aspiration hazard |
| Ethylbenzene | Aspiration hazard |
| Toluene      | 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 labelling, 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

#### Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 1

Chronic Aquatic Toxicity: Category 3

No product test data available.

| Material    | CAS Number | Organism         | Type               | Exposure   | Test endpoint | Test result             |
|-------------|------------|------------------|--------------------|------------|---------------|-------------------------|
| Cyclohexane | 110-82-7   | Fathead minnow   | Experimental       | 96 hours   | LC50          | 4.53 mg/l               |
| Cyclohexane | 110-82-7   | Water flea       | Experimental       | 48 hours   | EC50          | 0.9 mg/l                |
| Cyclohexane | 110-82-7   | Bacteria         | Experimental       | 24 hours   | IC50          | 97 mg/l                 |
| Xylene      | 1330-20-7  | Green algae      | Analogous Compound | 73 hours   | ErC50         | 4.36 mg/l               |
| Xylene      | 1330-20-7  | Rainbow trout    | Analogous Compound | 96 hours   | LC50          | 2.6 mg/l                |
| Xylene      | 1330-20-7  | Water flea       | Analogous Compound | 48 hours   | EC50          | 3.82 mg/l               |
| Xylene      | 1330-20-7  | Green algae      | Analogous Compound | 73 hours   | NOEC          | 0.44 mg/l               |
| Xylene      | 1330-20-7  | Rainbow trout    | Analogous Compound | 56 days    | NOEC          | 1.3 mg/l                |
| Xylene      | 1330-20-7  | Water flea       | Analogous Compound | 7 days     | NOEC          | 0.96 mg/l               |
| Xylene      | 1330-20-7  | Activated sludge | Analogous Compound | 30 minutes | EC50          | >198 mg/l               |
| Xylene      | 1330-20-7  | Redworm          | Analogous Compound | 56 days    | NOEC          | 42.6 mg/kg (Dry Weight) |
| Xylene      | 1330-20-7  | Soil microbes    | Analogous          | 28 days    | EC50          | >1,000 mg/kg (Dry       |

|                                                   |              |                  | Compound                                              |            |       | Weight)                   |
|---------------------------------------------------|--------------|------------------|-------------------------------------------------------|------------|-------|---------------------------|
| Ethanol                                           | 64-17-5      | Fathead minnow   | Experimental                                          | 96 hours   | LC50  | 14,200 mg/l               |
| Ethanol                                           | 64-17-5      | Fish             | Experimental                                          | 96 hours   | LC50  | 11,000 mg/l               |
| Ethanol                                           | 64-17-5      | Green algae      | Experimental                                          | 72 hours   | EC50  | 275 mg/l                  |
| Ethanol                                           | 64-17-5      | Water flea       | Experimental                                          | 48 hours   | LC50  | 5,012 mg/l                |
| Ethanol                                           | 64-17-5      | Green algae      | Experimental                                          | 72 hours   | ErC10 | 11.5 mg/l                 |
| Ethanol                                           | 64-17-5      | Water flea       | Experimental                                          | 10 days    | NOEC  | 9.6 mg/l                  |
| Ethylbenzene                                      | 100-41-4     | Green algae      | Analogous Compound                                    | 73 hours   | ErC50 | 4.36 mg/l                 |
| Ethylbenzene                                      | 100-41-4     | Rainbow trout    | Analogous Compound                                    | 96 hours   | LC50  | 2.6 mg/l                  |
| Ethylbenzene                                      | 100-41-4     | Water flea       | Analogous Compound                                    | 48 hours   | EC50  | 3.82 mg/l                 |
| Ethylbenzene                                      | 100-41-4     | Green algae      | Analogous Compound                                    | 73 hours   | NOEC  | 0.44 mg/l                 |
| Ethylbenzene                                      | 100-41-4     | Rainbow trout    | Analogous Compound                                    | 56 days    | NOEC  | 1.3 mg/l                  |
| Ethylbenzene                                      | 100-41-4     | Water flea       | Analogous Compound                                    | 7 days     | NOEC  | 0.96 mg/l                 |
| Ethylbenzene                                      | 100-41-4     | Activated sludge | Analogous Compound                                    | 30 minutes | EC50  | >198 mg/l                 |
| Ethylbenzene                                      | 100-41-4     | Redworm          | Analogous Compound                                    | 56 days    | NOEC  | 42.6 mg/kg (Dry Weight)   |
| Ethylbenzene                                      | 100-41-4     | Soil microbes    | Analogous Compound                                    | 28 days    | EC50  | >1,000 mg/kg (Dry Weight) |
| Acrylate Polymer                                  | Trade Secret | N/A              | Data not available or insufficient for classification | N/A        | N/A   | N/A                       |
| Chlorinated Polyolefin                            | 68609-36-9   | N/A              | Data not available or insufficient for classification | N/A        | N/A   | N/A                       |
| Ethyl acetate                                     | 141-78-6     | Bacteria         | Experimental                                          | 18 hours   | EC10  | 2,900 mg/l                |
| Ethyl acetate                                     | 141-78-6     | Fish             | Experimental                                          | 96 hours   | LC50  | 212.5 mg/l                |
| Ethyl acetate                                     | 141-78-6     | Invertebrate     | Experimental                                          | 48 hours   | EC50  | 165 mg/l                  |
| Ethyl acetate                                     | 141-78-6     | Green algae      | Experimental                                          | 72 hours   | NOEC  | >100 mg/l                 |
| Ethyl acetate                                     | 141-78-6     | Water flea       | Experimental                                          | 21 days    | NOEC  | 2.4 mg/l                  |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3    | Activated sludge | Estimated                                             | 30 minutes | IC50  | >100 mg/l                 |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3    | Green algae      | Estimated                                             | 72 hours   | EC50  | 280 mg/l                  |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3    | Rainbow trout    | Estimated                                             | 96 hours   | LC50  | 180 mg/l                  |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3    | Water flea       | Estimated                                             | 48 hours   | EC50  | 20 mg/l                   |

|                                                   |            |                               |              |           |       |                           |
|---------------------------------------------------|------------|-------------------------------|--------------|-----------|-------|---------------------------|
| oxy Silane                                        |            |                               |              |           |       |                           |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3  | Green algae                   | Estimated    | 72 hours  | NOEC  | 1 mg/l                    |
| Epoxy Resin                                       | 25068-38-6 | Activated sludge              | Estimated    | 3 hours   | IC50  | >100 mg/l                 |
| Epoxy Resin                                       | 25068-38-6 | Green algae                   | Estimated    | 72 hours  | EC50  | >11 mg/l                  |
| Epoxy Resin                                       | 25068-38-6 | Rainbow trout                 | Estimated    | 96 hours  | LC50  | 2 mg/l                    |
| Epoxy Resin                                       | 25068-38-6 | Water flea                    | Estimated    | 48 hours  | EC50  | 1.8 mg/l                  |
| Epoxy Resin                                       | 25068-38-6 | Green algae                   | Estimated    | 72 hours  | NOEC  | 4.2 mg/l                  |
| Epoxy Resin                                       | 25068-38-6 | Water flea                    | Estimated    | 21 days   | NOEC  | 0.3 mg/l                  |
| Isopropyl Alcohol                                 | 67-63-0    | Bacteria                      | Experimental | 16 hours  | LOEC  | 1,050 mg/l                |
| Isopropyl Alcohol                                 | 67-63-0    | Green algae                   | Experimental | 72 hours  | EC50  | >1,000 mg/l               |
| Isopropyl Alcohol                                 | 67-63-0    | Invertebrate                  | Experimental | 24 hours  | LC50  | >10,000 mg/l              |
| Isopropyl Alcohol                                 | 67-63-0    | Medaka                        | Experimental | 96 hours  | LC50  | >100 mg/l                 |
| Isopropyl Alcohol                                 | 67-63-0    | Water flea                    | Experimental | 48 hours  | EC50  | >1,000 mg/l               |
| Isopropyl Alcohol                                 | 67-63-0    | Green algae                   | Experimental | 72 hours  | NOEC  | 1,000 mg/l                |
| Isopropyl Alcohol                                 | 67-63-0    | Water flea                    | Experimental | 21 days   | NOEC  | 100 mg/l                  |
| Methanol                                          | 67-56-1    | Algae or other aquatic plants | Experimental | 96 hours  | EC50  | 16.9 mg/l                 |
| Methanol                                          | 67-56-1    | Bay mussel                    | Experimental | 96 hours  | LC50  | 15,900 mg/l               |
| Methanol                                          | 67-56-1    | Bluegill                      | Experimental | 96 hours  | LC50  | 15,400 mg/l               |
| Methanol                                          | 67-56-1    | Green algae                   | Experimental | 96 hours  | ErC50 | 22,000 mg/l               |
| Methanol                                          | 67-56-1    | Sediment organism             | Experimental | 96 hours  | LC50  | 54,890 mg/l               |
| Methanol                                          | 67-56-1    | Water flea                    | Experimental | 48 hours  | LC50  | 3,289 mg/l                |
| Methanol                                          | 67-56-1    | Green algae                   | Experimental | 96 hours  | NOEC  | 9.96 mg/l                 |
| Methanol                                          | 67-56-1    | Medaka                        | Experimental | 8.33 days | NOEC  | 158,000 mg/l              |
| Methanol                                          | 67-56-1    | Water flea                    | Experimental | 21 days   | NOEC  | 122 mg/l                  |
| Methanol                                          | 67-56-1    | Activated sludge              | Experimental | 3 hours   | IC50  | >1,000 mg/l               |
| Methanol                                          | 67-56-1    | Barley                        | Experimental | 14 days   | EC50  | 15,492 mg/kg (Dry Weight) |
| Methanol                                          | 67-56-1    | Redworm                       | Experimental | 63 days   | EC50  | 26,646 mg/kg (Dry Weight) |
| Methanol                                          | 67-56-1    | Springtail                    | Experimental | 28 days   | EC50  | 5,683 mg/kg (Dry Weight)  |
| Toluene                                           | 108-88-3   | Coho Salmon                   | Experimental | 96 hours  | LC50  | 5.5 mg/l                  |
| Toluene                                           | 108-88-3   | Grass Shrimp                  | Experimental | 96 hours  | LC50  | 9.5 mg/l                  |
| Toluene                                           | 108-88-3   | Green algae                   | Experimental | 72 hours  | EC50  | 12.5 mg/l                 |
| Toluene                                           | 108-88-3   | Leopard frog                  | Experimental | 9 days    | LC50  | 0.39 mg/l                 |
| Toluene                                           | 108-88-3   | Pink Salmon                   | Experimental | 96 hours  | LC50  | 6.41 mg/l                 |
| Toluene                                           | 108-88-3   | Water flea                    | Experimental | 48 hours  | EC50  | 3.78 mg/l                 |
| Toluene                                           | 108-88-3   | Coho Salmon                   | Experimental | 40 days   | NOEC  | 1.39 mg/l                 |
| Toluene                                           | 108-88-3   | Diatom                        | Experimental | 72 hours  | NOEC  | 10 mg/l                   |

|                  |          |                  |                    |          |       |                              |
|------------------|----------|------------------|--------------------|----------|-------|------------------------------|
| Toluene          | 108-88-3 | Water flea       | Experimental       | 7 days   | NOEC  | 0.74 mg/l                    |
| Toluene          | 108-88-3 | Activated sludge | Experimental       | 12 hours | IC50  | 292 mg/l                     |
| Toluene          | 108-88-3 | Bacteria         | Experimental       | 16 hours | NOEC  | 29 mg/l                      |
| Toluene          | 108-88-3 | Bacteria         | Experimental       | 24 hours | EC50  | 84 mg/l                      |
| Toluene          | 108-88-3 | Redworm          | Experimental       | 28 days  | LC50  | >150 mg per kg of bodyweight |
| Toluene          | 108-88-3 | Soil microbes    | Experimental       | 28 days  | NOEC  | <26 mg/kg (Dry Weight)       |
| Chlorobenzene    | 108-90-7 | Bluegill         | Experimental       | 96 hours | LC50  | 4.5 mg/l                     |
| Chlorobenzene    | 108-90-7 | Green algae      | Experimental       | 72 hours | ErC50 | 11.4 mg/l                    |
| Chlorobenzene    | 108-90-7 | Midge            | Experimental       | 96 hours | NOEC  | 0.7 mg/l                     |
| Chlorobenzene    | 108-90-7 | Water flea       | Experimental       | 48 hours | EC50  | 0.59 mg/l                    |
| Chlorobenzene    | 108-90-7 | Green algae      | Experimental       | 72 hours | ErC10 | 5.8 mg/l                     |
| Chlorobenzene    | 108-90-7 | Medaka           | Experimental       | 43 days  | NOEC  | 0.247 mg/l                   |
| Chlorobenzene    | 108-90-7 | Water flea       | Experimental       | 8 days   | NOEC  | 0.084 mg/l                   |
| Chlorobenzene    | 108-90-7 | Bacteria         | Experimental       | 24 hours | IC50  | 0.71 mg/l                    |
| Chlorobenzene    | 108-90-7 | Lettuce          | Experimental       | 14 days  | EC50  | >1,000 mg/kg (Dry Weight)    |
| Maleic anhydride | 108-31-6 | Bacteria         | Experimental       | 18 hours | EC10  | 44.6 mg/l                    |
| Maleic anhydride | 108-31-6 | Rainbow trout    | Experimental       | 96 hours | LC50  | 75 mg/l                      |
| Maleic anhydride | 108-31-6 | Green algae      | Hydrolysis Product | 72 hours | ErC50 | 74.4 mg/l                    |
| Maleic anhydride | 108-31-6 | Water flea       | Hydrolysis Product | 48 hours | EC50  | 93.8 mg/l                    |
| Maleic anhydride | 108-31-6 | Water flea       | Experimental       | 21 days  | NOEC  | 10 mg/l                      |
| Maleic anhydride | 108-31-6 | Green algae      | Hydrolysis Product | 72 hours | ErC10 | 11.8 mg/l                    |

## 12.2. Persistence and degradability

| Material               | CAS Number   | Test type                         | Duration | Study Type                    | Test result      | Protocol                            |
|------------------------|--------------|-----------------------------------|----------|-------------------------------|------------------|-------------------------------------|
| Cyclohexane            | 110-82-7     | Experimental Biodegradation       | 28 days  | BOD                           | 77 %BOD/ThO D    | OECD 301F - Manometric respirometry |
| Cyclohexane            | 110-82-7     | Experimental Photolysis           |          | Photolytic half-life (in air) | 4.3 days (t 1/2) |                                     |
| Xylene                 | 1330-20-7    | Analogous Compound Biodegradation | 28 days  | BOD                           | 94 %BOD/ThO D    | OECD 301F - Manometric respirometry |
| Ethanol                | 64-17-5      | Experimental Biodegradation       | 14 days  | BOD                           | 89 %BOD/ThO D    | OECD 301C - MITI test (I)           |
| Ethylbenzene           | 100-41-4     | Analogous Compound Biodegradation | 28 days  | BOD                           | 94 %BOD/ThO D    | OECD 301F - Manometric respirometry |
| Acrylate Polymer       | Trade Secret | Data not availbl-insufficient     | N/A      | N/A                           | N/A              | N/A                                 |
| Chlorinated Polyolefin | 68609-36-9   | Data not availbl-insufficient     | N/A      | N/A                           | N/A              | N/A                                 |

|                                                   |            |                                      |         |                               |                                      |                                     |
|---------------------------------------------------|------------|--------------------------------------|---------|-------------------------------|--------------------------------------|-------------------------------------|
| Ethyl acetate                                     | 141-78-6   | Experimental Biodegradation          | 14 days | BOD                           | 94 %BOD/ThO D                        | OECD 301C - MITI test (I)           |
| Ethyl acetate                                     | 141-78-6   | Experimental Photolysis              |         | Photolytic half-life (in air) | 20.0 days (t 1/2)                    |                                     |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3  | Estimated Biodegradation             | 28 days | BOD                           | 28 %BOD/ThO D                        | OECD 301D - Closed bottle test      |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3  | Estimated Hydrolysis                 |         | Hydrolytic half-life          | 6.5 hours (t 1/2)                    |                                     |
| Epoxy Resin                                       | 25068-38-6 | Estimated Biodegradation             | 28 days | BOD                           | 5 %BOD/COD                           | OECD 301F - Manometric respirometry |
| Epoxy Resin                                       | 25068-38-6 | Estimated Hydrolysis                 |         | Hydrolytic half-life          | 117 hours (t 1/2)                    |                                     |
| Isopropyl Alcohol                                 | 67-63-0    | Experimental Biodegradation          | 14 days | BOD                           | 86 %BOD/ThO D                        | OECD 301C - MITI test (I)           |
| Methanol                                          | 67-56-1    | Experimental Biodegradation          | 3 days  | Percent degraded              | 91 % degraded                        |                                     |
| Methanol                                          | 67-56-1    | Experimental Biodegradation          | 14 days | BOD                           | 92 %BOD/ThO D                        | OECD 301C - MITI test (I)           |
| Methanol                                          | 67-56-1    | Experimental Photolysis              |         | Photolytic half-life (in air) | 35 days (t 1/2)                      |                                     |
| Methanol                                          | 67-56-1    | Experimental Soil Metabolism Aerobic | 5 days  | CO2 evolution                 | 53.4 %CO2 evolution/THC O2 evolution |                                     |
| Toluene                                           | 108-88-3   | Experimental Biodegradation          | 20 days | BOD                           | 80 %BOD/ThO D                        | APHA Std Meth Water/Wastewater      |
| Toluene                                           | 108-88-3   | Experimental Photolysis              |         | Photolytic half-life (in air) | 5.2 days (t 1/2)                     |                                     |
| Chlorobenzene                                     | 108-90-7   | Experimental Biodegradation          | 28 days | BOD                           | 15 %BOD/ThO D                        | OECD 301F - Manometric respirometry |
| Chlorobenzene                                     | 108-90-7   | Experimental Photolysis              |         | Photolytic half-life (in air) | 42 days (t 1/2)                      |                                     |
| Chlorobenzene                                     | 108-90-7   | Experimental Biodegradation          |         | Half-life (t 1/2)             | 46.2 days (t 1/2)                    |                                     |
| Maleic anhydride                                  | 108-31-6   | Hydrolysis product Biodegradation    | 25 days | CO2 evolution                 | >90 %CO2 evolution/THC O2 evolution  | OECD 301B - Modified sturm or CO2   |
| Maleic anhydride                                  | 108-31-6   | Experimental Hydrolysis              |         | Hydrolytic half-life          | 0.37 minutes (t 1/2)                 |                                     |

### 12.3 : Bioaccumulative potential

| Material    | CAS Number | Test type                     | Duration | Study Type             | Test result | Protocol                 |
|-------------|------------|-------------------------------|----------|------------------------|-------------|--------------------------|
| Cyclohexane | 110-82-7   | Experimental BCF - Fish       | 56 days  | Bioaccumulation factor | 129         | OECD305-Bioconcentration |
| Cyclohexane | 110-82-7   | Experimental Bioconcentration |          | Log Kow                | 3.44        |                          |

|                                                   |              |                                                       |          |                        |        |                                 |
|---------------------------------------------------|--------------|-------------------------------------------------------|----------|------------------------|--------|---------------------------------|
| Xylene                                            | 1330-20-7    | Analogous Compound BCF - Fish                         | 56 days  | Bioaccumulation factor | <=25.9 |                                 |
| Xylene                                            | 1330-20-7    | Analogous Compound Bioconcentration                   |          | Log Kow                | 3.2    |                                 |
| Ethanol                                           | 64-17-5      | Experimental Bioconcentration                         |          | Log Kow                | -0.35  |                                 |
| Ethylbenzene                                      | 100-41-4     | Analogous Compound BCF - Fish                         | 56 days  | Bioaccumulation factor | <=25.9 |                                 |
| Ethylbenzene                                      | 100-41-4     | Analogous Compound Bioconcentration                   |          | Log Kow                | 3.2    |                                 |
| Acrylate Polymer                                  | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A    | N/A                             |
| Chlorinated Polyolefin                            | 68609-36-9   | Data not available or insufficient for classification | N/A      | N/A                    | N/A    | N/A                             |
| Ethyl acetate                                     | 141-78-6     | Experimental Bioconcentration                         |          | Log Kow                | 0.68   |                                 |
| Beta-(3,4-Epoxy cyclohexyl)ethyltrimethoxy Silane | 3388-04-3    | Estimated Bioconcentration                            |          | Bioaccumulation factor | 2.3    |                                 |
| Epoxy Resin                                       | 25068-38-6   | Estimated Bioconcentration                            |          | Log Kow                | 3.242  |                                 |
| Isopropyl Alcohol                                 | 67-63-0      | Experimental Bioconcentration                         |          | Log Kow                | 0.05   |                                 |
| Methanol                                          | 67-56-1      | Experimental BCF - Fish                               | 3 days   | Bioaccumulation factor | <4.5   |                                 |
| Methanol                                          | 67-56-1      | Experimental Bioconcentration                         |          | Log Kow                | -0.77  |                                 |
| Toluene                                           | 108-88-3     | Experimental BCF - Other                              | 72 hours | Bioaccumulation factor | 90     |                                 |
| Toluene                                           | 108-88-3     | Experimental Bioconcentration                         |          | Log Kow                | 2.73   |                                 |
| Chlorobenzene                                     | 108-90-7     | Experimental BCF - Fish                               | 56 days  | Bioaccumulation factor | 39.6   | OECD305-Bioconcentration        |
| Chlorobenzene                                     | 108-90-7     | Experimental Bioconcentration                         |          | Log Kow                | 2.84   |                                 |
| Maleic anhydride                                  | 108-31-6     | Experimental Bioconcentration                         |          | Log Kow                | -2.61  | OECD 107 log Kow shke flask mtd |

|  |  |    |  |  |  |  |
|--|--|----|--|--|--|--|
|  |  | on |  |  |  |  |
|--|--|----|--|--|--|--|

**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**

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

## SECTION 14: Transport Information

**New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**

**UN No.:** UN1993

**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Cyclohexane, Xylene )

**Class/Division:** 3

**Sub Risk:** Not applicable.

**Packing Group:** II

**Special Instructions:** Limited quantity may apply

**Hazchem Code:** -3YE

**IERG:** 14

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** UN1993

**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Cyclohexane, Xylene )

**Class/Division:** 3

**Sub Risk:** Not applicable.

**Packing Group:** II

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**

**UN No.:** UN1993

**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Cyclohexane, Xylene )

**Class/Division:** 3

**Sub Risk:** Not applicable.

**Packing Group:** II

**Marine Pollutant:** Cyclohexane

**Special Instructions:** Limited quantity may apply

## SECTION 15: Regulatory information

HSNO Approval number      HSR002669

Group standard name Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020  
 HSNO Hazard classification Refer to Section 2: Hazard identification

### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

### Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

|                                 |                                                                                                                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Certified handler               | Not required                                                                                                        |
| Location Compliance Certificate | 100 L (closed containers greater than 5 L) 250 L (closed containers up to and including 5 L) 50 L (open containers) |
| Hazardous atmosphere zone       | 100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use)          |
| Fire extinguishers              | Two required for 250 L                                                                                              |
| Emergency response plan         | 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for all other substances)       |
| Secondary containment           | 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L (for all other substances)       |
| Tracking                        | Not required                                                                                                        |
| Warning signage                 | 100 L (for Hazardous to the aquatic environment Category 1 substances); or 250 L (for all other substances)         |

## SECTION 16: Other information

### Revision information:

Complete document review.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 06-8243-5  | <b>Version number:</b>  | 5.00       |
| <b>Issue Date:</b>     | 08/07/2026 | <b>Supersedes date:</b> | 04/07/2021 |

### Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017

**HSNO** means Hazardous Substances and New Organisms Act 1996

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M New Zealand SDS are available at 3M New Zealand Website: <http://solutions.3mnz.co.nz>