



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the SS586 Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods.

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

#### 1.1. Product identifier

3M™ Neoprene High Performance Contact Adhesive Gray& Green 1357L

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

##### Recommended use

Contact Adhesive, Industrial use.

#### 1.3. Supplier's details

**Address:** 3M Technologies (S) Pte Ltd,10 Ang Mo Kio Street 65, Singapore 569059  
**Telephone:** +65 6450 8888  
**Website:** www.3m.com.sg

#### 1.4. Emergency telephone number

+65 6591 6601 (8.15am - 5.00pm, Monday - Friday)

### SECTION 2: Hazard identification

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

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

#### 2.2. Label elements

##### SIGNAL WORD

DANGER!

##### Symbols

Flame | Exclamation mark | Health Hazard | Environment |

##### Pictograms



**HAZARD STATEMENTS**

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H360 May damage fertility or the unborn child.
- 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
- H411 Toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS**

**Prevention:**

- P201 Obtain special instructions before use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280E Wear protective gloves.
- P273 Avoid release to the environment.

**Response:**

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P370 + P378G In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Disposal:**

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

**2.3. Other hazards**

Aspiration classification does not apply due to the viscosity of the product.

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

This material is a mixture.

| Ingredient         | CAS Nbr    | % by Wt |
|--------------------|------------|---------|
| C10-13-iso-Alkanes | 64741-84-0 | 20 - 50 |
| n-Hexane           | 110-54-3   | 5 - 30* |
| Acetone            | 67-64-1    | 10 - 30 |
| Heptane            | 142-82-5   | 2 - 15* |

|   |            |         |
|---|------------|---------|
| Magnesium Resinate                                      | 68037-42-3 | 5 - 10  |
| 2-Methylpentane   | 107-83-5   | 5 - 10* |
| 3-Methylpentane   | 96-14-0    | 5 - 10* |
| Butanone  | 78-93-3    | < 10    |
| Polychloroprene   | 9010-98-4  | 5 - 10  |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | 25085-50-1 | < 7     |
| Toluene   | 108-88-3   | 1 - 7   |
| Cyclohexane   | 110-82-7   | < 5*    |
| Magnesium oxide   | 1309-48-4  | < 5     |
| Methyl Acetate  | 79-20-9    | < 1     |
| Xylene  | 1330-20-7  | < 1     |
| Zinc oxide  | 1314-13-2  | < 1     |
| Rosin   | 8050-09-7  | < 1     |
| Styrenated Phenol                                       | 61788-44-1 | < 1     |
| Methanol  | 67-56-1    | < 0.3   |
| Ethylbenzene  | 100-41-4   | < 0.3*  |

\*These components are contained as a part of C10-13-iso-Alkanes(64741-84-0)

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **Inhalation**

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

#### **Skin contact**

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

#### **Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### **If swallowed**

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

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

Allergic skin reaction (redness, swelling, blistering, and itching). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). 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.

#### **Condition**

During combustion.

Hydrocarbons.  
Carbon monoxide.  
Carbon dioxide.  
Hydrogen Chloride

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.

## **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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### **6.2. Environmental precautions**

Avoid release to the environment. For larger spills, cover drains and build 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**

### **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. Store away from heat. Store away from acids. Store away from oxidising agents.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                           | CAS Nbr    | Agency         | Limit type  | Additional comments                         |
|--------------------------------------|------------|----------------|---|---|
| Ethylbenzene                         | 100-41-4   | ACGIH          | TWA:20 ppm  | A3: Confirmed animal carcin., Ototoxicant   |
| Ethylbenzene                         | 100-41-4   | Singapore PELs | TWA(8 hours):434 mg/m <sup>3</sup> (100 ppm);STEL(15 minutes):543 mg/m <sup>3</sup> (125 ppm)   |   |
| 2-Methylpentane                      | 107-83-5   | ACGIH          | TWA:500 ppm;STEL:1000 ppm   |   |
| HEXANE (ISOMERS OTHER THAN N-HEXANE) | 107-83-5   | Singapore PELs | TWA(8 hours):1760 mg/m <sup>3</sup> (500 ppm);STEL(15 minutes):3500 mg/m <sup>3</sup> (1000 ppm)                                      |   |
| Toluene                              | 108-88-3   | ACGIH          | TWA:20 ppm  | A4: Not class. as human carcin, Ototoxicant |
| Toluene                              | 108-88-3   | Singapore PELs | TWA(8 hours):188 mg/m <sup>3</sup> (50 ppm)   |   |
| n-Hexane                             | 110-54-3   | ACGIH          | TWA:50 ppm  | Danger of cutaneous absorption              |
| n-Hexane                             | 110-54-3   | Singapore PELs | TWA(8 hours):176 mg/m <sup>3</sup> (50 ppm)   |   |
| Cyclohexane                          | 110-82-7   | ACGIH          | TWA:100 ppm   |   |
| Cyclohexane                          | 110-82-7   | Singapore PELs | TWA(8 hours):1030 mg/m <sup>3</sup> (300 ppm)   |   |
| Magnesium oxide                      | 1309-48-4  | ACGIH          | TWA(inhalable fraction):10 mg/m <sup>3</sup>  | A4: Not class. as human carcin              |
| Magnesium oxide                      | 1309-48-4  | Singapore PELs | TWA(as fume)(8 hours):10 mg/m <sup>3</sup>  |   |
| Zinc oxide                           | 1314-13-2  | ACGIH          | TWA(respirable fraction):2 mg/m <sup>3</sup> ;STEL(respirable fraction):10 mg/m <sup>3</sup>  |   |
| Zinc oxide                           | 1314-13-2  | Singapore PELs | TWA(as fume)(8 hours):5 mg/m <sup>3</sup> ;TWA(as dust)(8 hours):10 mg/m <sup>3</sup> ;STEL(as fume)(15 minutes):10 mg/m <sup>3</sup> |   |
| Xylene                               | 1330-20-7  | ACGIH          | TWA:20 ppm  | A4: Not class. as human carcin              |
| Xylene                               | 1330-20-7  | Singapore PELs | TWA(8 hours):434 mg/m <sup>3</sup> (100 ppm);STEL(15 minutes):651 mg/m <sup>3</sup> (150 ppm)   |   |
| Heptane                              | 142-82-5   | ACGIH          | TWA:400 ppm;STEL:500 ppm  |   |
| Heptane                              | 142-82-5   | Singapore PELs | TWA(8 hours):1640 mg/m <sup>3</sup> (400 ppm);STEL(15 minutes):2050 mg/m <sup>3</sup> (500 ppm)                                       |   |
| Naphtha                              | 64741-84-0 | Singapore PELs | TWA(8 hours):1370 mg/m <sup>3</sup> (300 ppm)   |   |
| Methanol                             | 67-56-1    | ACGIH          | TWA:200 ppm;STEL:250 ppm  | Danger of cutaneous absorption              |
| Methanol                             | 67-56-1    | Singapore PELs | TWA(8 hours):262  |   |

|                                      |           |                |  |                                |
|--------------------------------------|-----------|----------------|--|--------------------------------|
|                                      |           |                | mg/m3(200 ppm);STEL(15 minutes):328 mg/m3(250 ppm)                     |                                |
| Acetone                              | 67-64-1   | ACGIH          | TWA:250 ppm;STEL:500 ppm   | A4: Not class. as human carcin |
| Acetone                              | 67-64-1   | Singapore PELs | TWA(8 hours):1780 mg/m3(750 ppm);STEL(15 minutes):2380 mg/m3(1000 ppm) |                                |
| Butanone                             | 78-93-3   | ACGIH          | TWA:200 ppm;STEL:300 ppm   |                                |
| Butanone                             | 78-93-3   | Singapore PELs | TWA(8 hours):590 mg/m3(200 ppm);STEL(15 minutes):885 mg/m3(300 ppm)    |                                |
| Methyl Acetate                       | 79-20-9   | ACGIH          | TWA:200 ppm;STEL:250 ppm   |                                |
| Methyl Acetate                       | 79-20-9   | Singapore PELs | TWA(8 hours):606 mg/m3(200 ppm);STEL(15 minutes):757 mg/m3(250 ppm)    |                                |
| Rosin                                | 8050-09-7 | ACGIH          | TWA(as Resin, inhalable fraction):0.001 mg/m3                          | Dermal/Respiratory Sensitizer  |
| 3-Methylpentane                      | 96-14-0   | ACGIH          | TWA:500 ppm;STEL:1000 ppm  |                                |
| HEXANE (ISOMERS OTHER THAN N-HEXANE) | 96-14-0   | Singapore PELs | TWA(8 hours):1760 mg/m3(500 ppm);STEL(15 minutes):3500 mg/m3(1000 ppm) |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

Singapore PELs : Singapore. Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

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

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Full face shield.

Indirect vented goggles.

#### Skin/hand protection

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

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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then

use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an Apron - polymer laminate

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

Half facepiece or full facepiece supplied-air respirator

Organic vapor respirators may have short service life.

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

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                    | Liquid.  |
| Color   | Gray, Green  |
| Odor  | Petroleum  |
| Odour threshold                                   | <i>No data available.</i>  |
| pH  | <i>Not applicable.</i>   |
| Melting point/Freezing point                      | <i>Not applicable.</i>   |
| Boiling point/Initial boiling point/Boiling range | >=80 °C  |
| Flash point                                       | -21.7 °C [ <i>Test Method:Closed Cup</i> ] [ <i>Details:n-Hexane</i> ] |
| Evaporation rate                                  | >=2 [ <i>Ref Std:ETHER=1</i> ]   |
| Flammability (solid, gas)                         | Not applicable.  |
| Flammable Limits(LEL)                             | 1 % volume   |
| Flammable Limits(UEL)                             | 12.8 % volume  |
| Vapour pressure                                   | <=24,664.6 Pa [ <i>@ 20 °C</i> ]                                       |
| Vapor Density and/or Relative Vapor Density       | >=1 [ <i>Ref Std:AIR=1</i> ]   |
| Density   | 0.8 g/ml   |
| Relative density                                  | 0.8 [ <i>Ref Std:WATER=1</i> ]   |
| Water solubility                                  | Slight (less than 10%)   |
| Solubility- non-water                             | <i>No data available.</i>  |
| Partition coefficient: n-octanol/water            | <i>No data available.</i>  |
| Autoignition temperature                          | <i>No data available.</i>  |
| Decomposition temperature                         | <i>No data available.</i>  |
| Viscosity/Kinematic Viscosity                     | 35 - 65 mPa-s [ <i>@ 23 °C</i> ]                                       |
| VOC less H2O & exempt solvents                    | <=674 g/l [ <i>Test Method:calculated SCAQMD rule 443.1</i> ]          |
| Molecular weight                                  | <i>No data available.</i>  |
| Solids content                                    | 10 - 20 %  |

## 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

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for 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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

#### Skin contact

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

#### Eye contact

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

#### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

#### Additional Health Effects:

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

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:

Ocular effects: Signs/symptoms may include blurred or significantly impaired vision. Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Peripheral neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.



Olfactory effects: Signs/symptoms may include decreased ability to detect odours and complete loss of smell. 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.

**Toxicological Data**

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

**Acute Toxicity**

| Name               | Route                      | Species | Value  |
|--------------------|----------------------------|---------|--|
| Overall product    | Dermal                     |         | No data available; calculated ATE >5,000 mg/kg |
| Overall product    | Inhalation-Vapor(4 hr)     |         | No data available; calculated ATE >50 mg/l     |
| Overall product    | Ingestion                  |         | No data available; calculated ATE >5,000 mg/kg |
| C10-13-iso-Alkanes | Dermal                     | Rat     | LD50 > 2,800 mg/kg                             |
| C10-13-iso-Alkanes | Inhalation-Vapor (4 hours) | Rat     | LC50 > 25.2 mg/l                               |
| C10-13-iso-Alkanes | Ingestion                  | Rat     | LD50 > 5,840 mg/kg                             |
| n-Hexane           | Dermal                     | Rabbit  | LD50 > 2,000 mg/kg                             |
| n-Hexane           | Inhalation-Vapor (4 hours) | Rat     | LC50 170 mg/l                                  |
| n-Hexane           | Ingestion                  | Rat     | LD50 > 28,700 mg/kg                            |
| Acetone            | Dermal                     | Rabbit  | LD50 > 15,688 mg/kg                            |
| Acetone            | Inhalation-Vapor (4 hours) | Rat     | LC50 76 mg/l                                   |
| Acetone            | Ingestion                  | Rat     | LD50 5,800 mg/kg                               |
| Heptane            | Dermal                     | Rabbit  | LD50 3,000 mg/kg                               |
| Heptane            | Inhalation-Vapor (4 hours) | Rat     | LC50 103 mg/l                                  |
| Heptane            | Ingestion                  | Rat     | LD50 > 15,000 mg/kg                            |
| Butanone           | Dermal                     | Rabbit  | LD50 > 8,050 mg/kg                             |
| Butanone           | Inhalation-Vapor (4 hours) | Rat     | LC50 34.5 mg/l                                 |
| Butanone           | Ingestion                  | Rat     | LD50 2,737 mg/kg                               |
| 2-Methylpentane    | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg             |
| 2-Methylpentane    | Inhalation-Vapor           |         | LC50 estimated to be > 50 mg/l                 |
| 2-Methylpentane    | Ingestion                  |         | LD50 estimated to be > 5,000 mg/kg             |
| 3-Methylpentane    | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg             |
| 3-Methylpentane    | Inhalation-Vapor           |         | LC50 estimated to be > 50 mg/l                 |
| 3-Methylpentane    | Ingestion                  |         | LD50 estimated to be > 5,000 mg/kg             |
| Magnesium Resinate | Dermal                     |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Magnesium Resinate | Ingestion                  |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Polychloroprene    | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg             |
| Polychloroprene    | Ingestion                  | Rat     | LD50 > 20,000 mg/kg                            |
| Toluene            | Dermal                     | Rat     | LD50 12,000 mg/kg                              |
| Toluene            | Inhalation-Vapor (4 hours) | Rat     | LC50 30 mg/l                                   |

**3M™ Neoprene High Performance Contact Adhesive Gray& Green 1357L**

|   |                                |                        |  |
|---|--------------------------------|------------------------|--|
| Toluene   | Ingestion                      | Rat                    | LD50 5,550 mg/kg                         |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg       |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | Ingestion                      | Rat                    | LD50 5,660 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                         |
| Magnesium oxide   | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Magnesium oxide   | Ingestion                      | Rat                    | LD50 3,870 mg/kg                         |
| Methyl Acetate  | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| Methyl Acetate  | Inhalation-Vapor (4 hours)     | Rat                    | LC50 > 49 mg/l                           |
| Methyl Acetate  | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                       |
| Zinc oxide  | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg       |
| Zinc oxide  | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.7 mg/l                          |
| Zinc oxide  | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                       |
| Rosin   | Dermal                         | Rabbit                 | LD50 > 2,500 mg/kg                       |
| Rosin   | Ingestion                      | Rat                    | LD50 7,600 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      |
| 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                         |
| Styrenated Phenol                                       | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| Styrenated Phenol                                       | Ingestion                      | Rat                    | LD50 > 2,000 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                         |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name               | Species                | Value                     |
|--------------------|------------------------|---------------------------|
| C10-13-iso-Alkanes | Rabbit                 | Irritant                  |
| n-Hexane           | Human and animal       | Mild irritant             |
| Acetone            | Mouse                  | Minimal irritation        |
| Heptane            | Human                  | Mild irritant             |
| Butanone           | Rabbit                 | Minimal irritation        |
| 2-Methylpentane    | Professional judgement | Mild irritant             |
| 3-Methylpentane    | Professional judgement | Mild irritant             |
| Polychloroprene    | Human                  | No significant irritation |
| Toluene            | Rabbit                 | Irritant                  |
| Cyclohexane        | Rabbit                 | Mild irritant             |
| Magnesium oxide    | Professional judgement | No significant irritation |

|                   |                  |                           |
|-------------------|------------------|---------------------------|
|                   | nal judgement    |                           |
| Methyl Acetate    | Rabbit           | No significant irritation |
| Zinc oxide        | Human and animal | No significant irritation |
| Rosin             | Rabbit           | No significant irritation |
| Methanol          | Rabbit           | Mild irritant             |
| Ethylbenzene      | Rabbit           | Mild irritant             |
| Styrenated Phenol | Rabbit           | No significant irritation |
| Xylene            | Rabbit           | Mild irritant             |

**Serious Eye Damage/Irritation**

| Name               | Species                | Value                     |
|--------------------|------------------------|---------------------------|
| C10-13-iso-Alkanes | Rabbit                 | Mild irritant             |
| n-Hexane           | Rabbit                 | Mild irritant             |
| Acetone            | Rabbit                 | Severe irritant           |
| Heptane            | Professional judgement | Moderate irritant         |
| Butanone           | Rabbit                 | Severe irritant           |
| 2-Methylpentane    | Professional judgement | Moderate irritant         |
| 3-Methylpentane    | Professional judgement | Moderate irritant         |
| Polychloroprene    | Professional judgement | No significant irritation |
| Toluene            | Rabbit                 | Moderate irritant         |
| Cyclohexane        | Rabbit                 | Mild irritant             |
| Methyl Acetate     | Rabbit                 | Moderate irritant         |
| Zinc oxide         | Rabbit                 | Mild irritant             |
| Rosin              | Rabbit                 | Mild irritant             |
| Methanol           | Rabbit                 | Moderate irritant         |
| Ethylbenzene       | Rabbit                 | Moderate irritant         |
| Styrenated Phenol  | Rabbit                 | Mild irritant             |
| Xylene             | Rabbit                 | Mild irritant             |

**Sensitization:**

**Skin Sensitisation**

| Name  | Species    | Value  |
|---|------------|--|
| C10-13-iso-Alkanes                                      | Guinea pig | Not classified   |
| n-Hexane  | Human      | Not classified   |
| Toluene   | Guinea pig | Not classified   |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | Human      | Some positive data exist, but the data are not sufficient for classification |
| Methyl Acetate  | Human      | Not classified   |
| Zinc oxide  | Guinea pig | Not classified   |
| Rosin   | Guinea pig | Sensitising  |
| Methanol  | Guinea pig | Not classified   |

|                   |       |                |
|-------------------|-------|----------------|
| Ethylbenzene      | Human | Not classified |
| Styrenated Phenol | Mouse | Sensitising    |

**Respiratory Sensitisation**

| Name  | Species | Value          |
|-------|---------|----------------|
| Rosin | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name            | Route    | Value  |
|-----------------|----------|--|
| n-Hexane        | In Vitro | Not mutagenic  |
| n-Hexane        | In vivo  | Not mutagenic  |
| Acetone         | In vivo  | Not mutagenic  |
| Acetone         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Heptane         | In Vitro | Not mutagenic  |
| Butanone        | In Vitro | Not mutagenic  |
| Toluene         | In Vitro | Not mutagenic  |
| Toluene         | In vivo  | Not mutagenic  |
| Cyclohexane     | In Vitro | Not mutagenic  |
| Cyclohexane     | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Magnesium oxide | In Vitro | Not mutagenic  |
| Methyl Acetate  | In Vitro | Not mutagenic  |
| Methyl Acetate  | In vivo  | Not mutagenic  |
| Zinc oxide      | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc oxide      | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| 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 |
| Ethylbenzene    | In vivo  | Not mutagenic  |
| Ethylbenzene    | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Xylene          | In Vitro | Not mutagenic  |
| Xylene          | In vivo  | Not mutagenic  |

**Carcinogenicity**

| Name            | Route          | Species                 | Value  |
|-----------------|----------------|-------------------------|--|
| n-Hexane        | Dermal         | Mouse                   | Not carcinogenic   |
| n-Hexane        | Inhalation     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Acetone         | Not specified. | Multiple animal species | Not carcinogenic   |
| Butanone        | Inhalation     | Human                   | Not carcinogenic   |
| 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 |
| Magnesium oxide | Not specified. | Human and animal        | Some positive data exist, but the data are not sufficient for classification |
| Methanol        | Inhalation     | Multiple animal species | Not carcinogenic   |
| Ethylbenzene    | Inhalation     | Multiple animal species | Carcinogenic.  |

|        |            |                         |  |
|--------|------------|-------------------------|--|
| 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 |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name               | Route      | Value  | Species                 | Test result           | Exposure Duration              |
|--------------------|------------|--|-------------------------|-----------------------|--------------------------------|
| C10-13-iso-Alkanes | Ingestion  | Toxic to male reproduction                         | similar compounds       | NOAEL not available   | not available                  |
| C10-13-iso-Alkanes | Inhalation | Toxic to male reproduction                         | similar compounds       | NOAEL not available   | not available                  |
| n-Hexane           | Ingestion  | Not classified for development                     | Mouse                   | NOAEL 2,200 mg/kg/day | during organogenesis           |
| n-Hexane           | Inhalation | Not classified for development                     | Rat                     | NOAEL 0.7 mg/l        | during gestation               |
| n-Hexane           | Ingestion  | Toxic to male reproduction                         | Rat                     | NOAEL 1,140 mg/kg/day | 90 days                        |
| n-Hexane           | Inhalation | Toxic to male reproduction                         | Rat                     | LOAEL 3.52 mg/l       | 28 days                        |
| Acetone            | Ingestion  | Not classified for male reproduction               | Rat                     | NOAEL 1,700 mg/kg/day | 13 weeks                       |
| Acetone            | Inhalation | Not classified for development                     | Rat                     | NOAEL 5.2 mg/l        | during organogenesis           |
| Butanone           | Inhalation | Not classified for development                     | Rat                     | LOAEL 8.8 mg/l        | during gestation               |
| 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         |
| 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                   |
| Zinc oxide         | Ingestion  | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day   | prematuring & 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           |
| Ethylbenzene       | Inhalation | Not classified for development                     | Rat                     | NOAEL 4.3 mg/l        | prematuring & during gestation |
| Xylene             | Inhalation | Not classified for female reproduction             | Human                   | NOAEL Not available   | occupational exposure          |
| Xylene             | Ingestion  | Not classified for development                     | Mouse                   | NOAEL Not             | during                         |

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|        |            |                                |                         |                     |                  |
|--------|------------|--------------------------------|-------------------------|---------------------|------------------|
|        |            |                                |                         | available           | organogenesis    |
| Xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |

**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      |
|--------------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| C10-13-iso-Alkanes | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | similar compounds       | NOAEL not available | not available          |
| C10-13-iso-Alkanes | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | similar compounds       | NOAEL not available | not available          |
| n-Hexane           | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available | not available          |
| n-Hexane           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Rabbit                  | NOAEL Not available | 8 hours                |
| n-Hexane           | Inhalation | respiratory system                | Not classified   | Rat                     | NOAEL 24.6 mg/l     | 8 hours                |
| Acetone            | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                        |
| Acetone            | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Acetone            | Inhalation | immune system                     | Not classified   | Human                   | NOAEL 1.19 mg/l     | 6 hours                |
| Acetone            | Inhalation | liver                             | Not classified   | Guinea pig              | NOAEL Not available |                        |
| Acetone            | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available | poisoning and/or abuse |
| Heptane            | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                        |
| Heptane            | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Heptane            | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                        |
| Butanone           | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | official classification | NOAEL Not available |                        |
| Butanone           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Butanone           | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                        |
| Butanone           | Ingestion  | liver                             | Not classified   | Rat                     | NOAEL Not available | not applicable         |
| Butanone           | Ingestion  | kidney and/or bladder             | Not classified   | Rat                     | LOAEL 1,080 mg/kg   | not applicable         |
| 2-Methylpentane    | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                        |
| 2-Methylpentane    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for                |                         | NOAEL Not available |                        |

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|                 |            |                                   | classification   |                        |                     |                        |
|-----------------|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| 2-Methylpentane | Inhalation | cardiac sensitization             | Not classified   | Dog                    | NOAEL Not available |                        |
| 2-Methylpentane | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 3-Methylpentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 3-Methylpentane | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                        |
| 3-Methylpentane | Inhalation | cardiac sensitization             | Not classified   | Dog                    | NOAEL Not available |                        |
| 3-Methylpentane | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | 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 |
| 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 |                        |
| Magnesium oxide | Inhalation | respiratory system                | Not classified   | Human                  | NOAEL Not available |                        |
| Methyl Acetate  | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal       | NOAEL Not available |                        |
| Methyl Acetate  | Inhalation | respiratory irritation            | May cause respiratory irritation   | Human and animal       | NOAEL Not available |                        |
| Methyl Acetate  | Inhalation | blindness                         | Not classified   |                        | NOAEL Not available |                        |
| Methyl Acetate  | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  |                        | NOAEL Not available |                        |
| 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 |
| 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 |                        |

|              |            |                                   |  |                         |                     |                |
|--------------|------------|-----------------------------------|--|-------------------------|---------------------|----------------|
| Ethylbenzene | 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 |

**Specific Target Organ Toxicity - repeated exposure**

| Name               | Route      | Target Organ(s)   | Value  | Species           | Test result           | Exposure Duration     |
|--------------------|------------|---|--|-------------------|-----------------------|-----------------------|
| C10-13-iso-Alkanes | Inhalation | peripheral nervous system   | May cause damage to organs though prolonged or repeated exposure             | similar compounds | NOAEL not available   | not available         |
| n-Hexane           | Inhalation | peripheral nervous system   | Causes damage to organs through prolonged or repeated exposure               | Human             | NOAEL Not available   | occupational exposure |
| n-Hexane           | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Mouse             | LOAEL 1.76 mg/l       | 13 weeks              |
| n-Hexane           | Inhalation | liver   | Not classified   | Rat               | NOAEL Not available   | 6 months              |
| n-Hexane           | Inhalation | kidney and/or bladder   | Not classified   | Rat               | LOAEL 1.76 mg/l       | 6 months              |
| n-Hexane           | Inhalation | hematopoietic system  | Not classified   | Mouse             | NOAEL 35.2 mg/l       | 13 weeks              |
| n-Hexane           | Inhalation | auditory system   immune system   eyes  | Not classified   | Human             | NOAEL Not available   | occupational exposure |
| n-Hexane           | Inhalation | heart   skin   endocrine system   | Not classified   | Rat               | NOAEL 1.76 mg/l       | 6 months              |
| n-Hexane           | Ingestion  | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat               | NOAEL 1,140 mg/kg/day | 90 days               |
| n-Hexane           | Ingestion  | endocrine system   hematopoietic system   liver   immune system   kidney and/or bladder | Not classified   | Rat               | NOAEL Not available   | 13 weeks              |
| Acetone            | Dermal     | eyes  | Not classified   | Guinea pig        | NOAEL Not available   | 3 weeks               |
| Acetone            | Inhalation | hematopoietic system  | Not classified   | Human             | NOAEL 3 mg/l          | 6 weeks               |
| Acetone            | Inhalation | immune system   | Not classified   | Human             | NOAEL 1.19 mg/l       | 6 days                |
| Acetone            | Inhalation | kidney and/or bladder   | Not classified   | Guinea pig        | NOAEL 119 mg/l        | not available         |
| Acetone            | Inhalation | heart   liver   | Not classified   | Rat               | NOAEL 45 mg/l         | 8 weeks               |
| Acetone            | Ingestion  | kidney and/or bladder   | Not classified   | Rat               | NOAEL 900 mg/kg/day   | 13 weeks              |
| Acetone            | Ingestion  | heart   | Not classified   | Rat               | NOAEL 2,500           | 13 weeks              |



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|                 |            |  |  |            |                                  |                        |
|-----------------|------------|--|--|------------|----------------------------------|------------------------|
| Acetone         | Ingestion  | hematopoietic system   | Not classified   | Rat        | mg/kg/day<br>NOAEL 200 mg/kg/day | 13 weeks               |
| Acetone         | Ingestion  | liver  | Not classified   | Mouse      | NOAEL 3,896 mg/kg/day            | 14 days                |
| Acetone         | Ingestion  | eyes   | Not classified   | Rat        | NOAEL 3,400 mg/kg/day            | 13 weeks               |
| Acetone         | Ingestion  | respiratory system   | Not classified   | Rat        | NOAEL 2,500 mg/kg/day            | 13 weeks               |
| Acetone         | Ingestion  | muscles  | Not classified   | Rat        | NOAEL 2,500 mg/kg                | 13 weeks               |
| Acetone         | Ingestion  | skin   bone, teeth, nails, and/or hair   | Not classified   | Mouse      | NOAEL 11,298 mg/kg/day           | 13 weeks               |
| Heptane         | Inhalation | liver   nervous system   kidney and/or bladder   | Not classified   | Rat        | NOAEL 12 mg/l                    | 26 weeks               |
| Butanone        | Dermal     | nervous system   | Not classified   | Guinea pig | NOAEL Not available              | 31 weeks               |
| Butanone        | Inhalation | liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles | Not classified   | Rat        | NOAEL 14.7 mg/l                  | 90 days                |
| Butanone        | Ingestion  | liver  | Not classified   | Rat        | NOAEL Not available              | 7 days                 |
| Butanone        | Ingestion  | nervous system   | Not classified   | Rat        | NOAEL 173 mg/kg/day              | 90 days                |
| 2-Methylpentane | Inhalation | peripheral nervous system  | Not classified   | Rat        | NOAEL 5.3 mg/l                   | 14 weeks               |
| 2-Methylpentane | Ingestion  | peripheral nervous system  | Not classified   | Rat        | NOAEL Not available              | 8 weeks                |
| 2-Methylpentane | Ingestion  | kidney and/or bladder  | Not classified   | Rat        | LOAEL 2,000 mg/kg                | 28 days                |
| 3-Methylpentane | Inhalation | peripheral nervous system  | Not classified   | Rat        | NOAEL 5.3 mg/l                   | 14 weeks               |
| 3-Methylpentane | Ingestion  | peripheral nervous system  | Not classified   | Rat        | NOAEL Not available              | 8 weeks                |
| 3-Methylpentane | Ingestion  | kidney and/or bladder  | Not classified   | Rat        | LOAEL 2,000 mg/kg                | 28 days                |
| Toluene         | Inhalation | auditory system   eyes   olfactory system  | Causes damage to organs through prolonged or repeated exposure               | Human      | NOAEL Not available              | poisoning and/or abuse |
| Toluene         | Inhalation | nervous system   | May cause damage to organs though 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   liver   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   vascular system   | Not classified   | Human      | NOAEL Not available              | occupational exposure  |
| Toluene         | Inhalation | gastrointestinal tract   | Not classified   | Multiple   | NOAEL 11.3                       | 15 weeks               |

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|                |            |   |  | animal species          | mg/l                  |           |
|----------------|------------|---|--|-------------------------|-----------------------|-----------|
| 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   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   |
| 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  |
| Methyl Acetate | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1.1 mg/l        | 28 days   |
| Methyl Acetate | Inhalation | endocrine system   hematopoietic system   liver   immune system   kidney and/or bladder | Not classified   | Rat                     | NOAEL 6.1 mg/l        | 28 days   |
| Zinc oxide     | Ingestion  | nervous system  | Not classified   | Rat                     | NOAEL 600 mg/kg/day   | 10 days   |
| Zinc oxide     | Ingestion  | endocrine system   hematopoietic system   kidney and/or bladder                         | Not classified   | Other                   | NOAEL 500 mg/kg/day   | 6 months  |
| 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   nervous system  | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 90 days   |
| 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 | auditory system   | Not classified   | Rat                     | NOAEL 2.4 mg/l        | 5 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   muscles   | Not classified   | Multiple animal species | NOAEL 4.2 mg/l        | 90 days   |
| Ethylbenzene   | Inhalation | heart   immune system   respiratory   | Not classified   | Multiple animal         | NOAEL 3.3 mg/l        | 2 years   |

|              |            |  |  |                         |                       |           |
|--------------|------------|--|--|-------------------------|-----------------------|-----------|
|              |            | system   |  | species                 |                       |           |
| Ethylbenzene | Ingestion  | liver   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 680 mg/kg/day   | 6 months  |
| 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   endocrine system   gastrointestinal tract   hematopoietic system   muscles   kidney and/or bladder   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   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory system | Not classified   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks |

**Aspiration Hazard**

| Name               | Value             |
|--------------------|-------------------|
| C10-13-iso-Alkanes | Aspiration hazard |
| n-Hexane           | Aspiration hazard |
| Heptane            | Aspiration hazard |
| 2-Methylpentane    | Aspiration hazard |
| 3-Methylpentane    | Aspiration hazard |
| Toluene            | Aspiration hazard |
| Cyclohexane        | Aspiration hazard |
| Ethylbenzene       | Aspiration hazard |
| Xylene             | 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**

**Chronic aquatic hazard:**

**3M™ Neoprene High Performance Contact Adhesive Gray& Green 1357L**

GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

| Material  | CAS Nbr    | Organism                      | Type  | Exposure | Test endpoint | Test result                  |
|---|------------|-------------------------------|---|----------|---------------|------------------------------|
| C10-13-iso-Alkanes                                      | 64741-84-0 | Green algae                   | Estimated   | 72 hours | EC50          | 30 mg/l                      |
| C10-13-iso-Alkanes                                      | 64741-84-0 | Rainbow trout                 | Estimated   | 96 hours | LL50          | 11.4 mg/l                    |
| C10-13-iso-Alkanes                                      | 64741-84-0 | Water flea                    | Estimated   | 48 hours | EL50          | 3 mg/l                       |
| C10-13-iso-Alkanes                                      | 64741-84-0 | Green algae                   | Estimated   | 72 hours | NOEL          | 3 mg/l                       |
| C10-13-iso-Alkanes                                      | 64741-84-0 | Water flea                    | Estimated   | 21 days  | NOEL          | 1 mg/l                       |
| Acetone   | 67-64-1    | Algae or other aquatic plants | Experimental  | 96 hours | EC50          | 11,493 mg/l                  |
| Acetone   | 67-64-1    | Invertebrate                  | Experimental  | 24 hours | LC50          | 2,100 mg/l                   |
| Acetone   | 67-64-1    | Rainbow trout                 | Experimental  | 96 hours | LC50          | 5,540 mg/l                   |
| Acetone   | 67-64-1    | Water flea                    | Experimental  | 21 days  | NOEC          | 1,000 mg/l                   |
| Acetone   | 67-64-1    | Bacteria                      | Experimental  | 16 hours | NOEC          | 1,700 mg/l                   |
| Acetone   | 67-64-1    | Redworm                       | Experimental  | 48 hours | LC50          | >100                         |
| n-Hexane  | 110-54-3   | Fathead minnow                | Experimental  | 96 hours | LC50          | 2.5 mg/l                     |
| n-Hexane  | 110-54-3   | Water flea                    | Experimental  | 48 hours | LC50          | 3.9 mg/l                     |
| Heptane   | 142-82-5   | Water flea                    | Experimental  | 48 hours | EC50          | 1.5 mg/l                     |
| Heptane   | 142-82-5   | Water flea                    | Estimated   | 21 days  | NOEC          | 0.17 mg/l                    |
| 2-Methylpentane   | 107-83-5   | N/A                           | Data not available or insufficient for classification | N/A      | N/A           | N/A                          |
| 3-Methylpentane   | 96-14-0    | N/A                           | Data not available or insufficient for classification | N/A      | N/A           | N/A                          |
| Magnesium Resinate                                      | 68037-42-3 | N/A                           | Data not available or insufficient for classification | N/A      | N/A           | n/a                          |
| Butanone  | 78-93-3    | Fathead minnow                | Experimental  | 96 hours | LC50          | 2,993 mg/l                   |
| Butanone  | 78-93-3    | Green algae                   | Experimental  | 96 hours | ErC50         | 2,029 mg/l                   |
| Butanone  | 78-93-3    | Water flea                    | Experimental  | 48 hours | EC50          | 308 mg/l                     |
| Butanone  | 78-93-3    | Green algae                   | Experimental  | 96 hours | ErC10         | 1,289 mg/l                   |
| Butanone  | 78-93-3    | Water flea                    | Experimental  | 21 days  | NOEC          | 100 mg/l                     |
| Butanone  | 78-93-3    | Bacteria                      | Experimental  | 16 hours | LOEC          | 1,150 mg/l                   |
| Polychloroprene   | 9010-98-4  | N/A                           | Data not available or insufficient for classification | N/A      | N/A           | N/A                          |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | 25085-50-1 | N/A                           | Data not available or insufficient for classification | N/A      | N/A           | N/A                          |
| 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)       |
| Cyclohexane   | 110-82-7   | Bacteria                      | Experimental  | 24 hours | IC50          | 97 mg/l                      |
| Cyclohexane   | 110-82-7   | Fathead minnow                | Experimental  | 96 hours | LC50          | 4.53 mg/l                    |

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|                   |            |                               |   |           |       |                           |
|-------------------|------------|-------------------------------|---|-----------|-------|---------------------------|
| Cyclohexane       | 110-82-7   | Water flea                    | Experimental  | 48 hours  | EC50  | 0.9 mg/l                  |
| Magnesium oxide   | 1309-48-4  | N/A                           | Data not available or insufficient for classification | N/A       | N/A   | N/A                       |
| Methyl Acetate    | 79-20-9    | Bacteria                      | Experimental  | 16 hours  | EC50  | 6,000 mg/l                |
| Methyl Acetate    | 79-20-9    | Green algae                   | Experimental  | 72 hours  | ErC50 | >120 mg/l                 |
| Methyl Acetate    | 79-20-9    | Water flea                    | Experimental  | 48 hours  | EC50  | 1,026.7 mg/l              |
| Methyl Acetate    | 79-20-9    | Green algae                   | Experimental  | 72 hours  | NOEC  | 120 mg/l                  |
| Rosin             | 8050-09-7  | Bacteria                      | Experimental  | N/A       | EC50  | 76.1 mg/l                 |
| Rosin             | 8050-09-7  | Green algae                   | Experimental  | 72 hours  | EL50  | >100 mg/l                 |
| Rosin             | 8050-09-7  | Water flea                    | Experimental  | 48 hours  | EL50  | 911 mg/l                  |
| Rosin             | 8050-09-7  | Zebra Fish                    | Experimental  | 96 hours  | LL50  | >1 mg/l                   |
| Rosin             | 8050-09-7  | Green algae                   | Experimental  | 72 hours  | NOEL  | 100 mg/l                  |
| Styrenated Phenol | 61788-44-1 | Activated sludge              | Experimental  | 3 hours   | EC50  | 362 mg/l                  |
| Styrenated Phenol | 61788-44-1 | Green algae                   | Experimental  | 72 hours  | EC50  | 1.35 mg/l                 |
| Styrenated Phenol | 61788-44-1 | Medaka                        | Experimental  | 96 hours  | LC50  | 5.6 mg/l                  |
| Styrenated Phenol | 61788-44-1 | Water flea                    | Experimental  | 48 hours  | EC50  | 4.6 mg/l                  |
| Styrenated Phenol | 61788-44-1 | Green algae                   | Experimental  | 72 hours  | NOEC  | 0.42 mg/l                 |
| Styrenated Phenol | 61788-44-1 | Water flea                    | Experimental  | 21 days   | NOEC  | 0.2 mg/l                  |
| Xylene            | 1330-20-7  | Activated sludge              | Estimated   | 3 hours   | NOEC  | 157 mg/l                  |
| Xylene            | 1330-20-7  | Green algae                   | Estimated   | 72 hours  | EC50  | 4.36 mg/l                 |
| Xylene            | 1330-20-7  | Rainbow trout                 | Estimated   | 96 hours  | LC50  | 2.6 mg/l                  |
| Xylene            | 1330-20-7  | Water flea                    | Estimated   | 48 hours  | EC50  | 3.82 mg/l                 |
| Xylene            | 1330-20-7  | Green algae                   | Estimated   | 72 hours  | NOEC  | 0.44 mg/l                 |
| Xylene            | 1330-20-7  | Water flea                    | Estimated   | 7 days    | NOEC  | 0.96 mg/l                 |
| Xylene            | 1330-20-7  | Rainbow trout                 | Experimental  | 56 days   | NOEC  | >1.3 mg/l                 |
| Zinc oxide        | 1314-13-2  | Activated sludge              | Estimated   | 3 hours   | EC50  | 6.5 mg/l                  |
| Zinc oxide        | 1314-13-2  | Green algae                   | Estimated   | 72 hours  | EC50  | 0.052 mg/l                |
| Zinc oxide        | 1314-13-2  | Rainbow trout                 | Estimated   | 96 hours  | LC50  | 0.21 mg/l                 |
| Zinc oxide        | 1314-13-2  | Water flea                    | Estimated   | 48 hours  | EC50  | 0.07 mg/l                 |
| Zinc oxide        | 1314-13-2  | Green algae                   | Estimated   | 72 hours  | NOEC  | 0.006 mg/l                |
| Zinc oxide        | 1314-13-2  | Water flea                    | Estimated   | 7 days    | NOEC  | 0.02 mg/l                 |
| Ethylbenzene      | 100-41-4   | Activated sludge              | Experimental  | 49 hours  | EC50  | 130 mg/l                  |
| Ethylbenzene      | 100-41-4   | Atlantic Silverside           | Experimental  | 96 hours  | LC50  | 5.1 mg/l                  |
| Ethylbenzene      | 100-41-4   | Green algae                   | Experimental  | 96 hours  | EC50  | 3.6 mg/l                  |
| Ethylbenzene      | 100-41-4   | Mysid Shrimp                  | Experimental  | 96 hours  | LC50  | 2.6 mg/l                  |
| Ethylbenzene      | 100-41-4   | Rainbow trout                 | Experimental  | 96 hours  | LC50  | 4.2 mg/l                  |
| Ethylbenzene      | 100-41-4   | Water flea                    | Experimental  | 48 hours  | EC50  | 1.8 mg/l                  |
| Ethylbenzene      | 100-41-4   | Water flea                    | Experimental  | 7 days    | NOEC  | 0.96 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)  |

**12.2. Persistence and degradability**

| Material           | CAS Nbr    | Test type                   | Duration | Study Type | Test result  | Protocol                            |
|--------------------|------------|-----------------------------|----------|------------|--------------|-------------------------------------|
| C10-13-iso-Alkanes | 64741-84-0 | Estimated Biodegradation    | 28 days  | BOD        | 98 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Acetone            | 67-64-1    | Experimental Biodegradation | 28 days  | BOD        | 78 %BOD/ThOD | OECD 301D - Closed bottle test      |

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|   |            |                                   |         |                               |                                      |                                     |
|---|------------|-----------------------------------|---------|-------------------------------|--------------------------------------|-------------------------------------|
| Acetone   | 67-64-1    | Experimental Photolysis           |         | Photolytic half-life (in air) | 147 days (t 1/2)                     |                                     |
| n-Hexane  | 110-54-3   | Experimental Bioconcentration     | 28 days | BOD                           | 100 %BOD/ThOD                        | OECD 301C - MITI test (I)           |
| n-Hexane  | 110-54-3   | Experimental Photolysis           |         | Photolytic half-life (in air) | 5.4 days (t 1/2)                     |                                     |
| Heptane   | 142-82-5   | Experimental Biodegradation       | 28 days | BOD                           | 101 %BOD/ThOD                        | OECD 301C - MITI test (I)           |
| Heptane   | 142-82-5   | Experimental Photolysis           |         | Photolytic half-life (in air) | 4.24 days (t 1/2)                    |                                     |
| 2-Methylpentane   | 107-83-5   | Experimental Biodegradation       | 28 days | BOD                           | 93 %BOD/ThOD                         | OECD 301C - MITI test (I)           |
| 2-Methylpentane   | 107-83-5   | Experimental Photolysis           |         | Photolytic half-life (in air) | 5.4 days (t 1/2)                     |                                     |
| 3-Methylpentane   | 96-14-0    | Analogous Compound Biodegradation | 28 days | BOD                           | 93 %BOD/ThOD                         | OECD 301C - MITI test (I)           |
| 3-Methylpentane   | 96-14-0    | Experimental Photolysis           |         | Photolytic half-life (in air) | 6.1 days (t 1/2)                     |                                     |
| Magnesium Resinate                                      | 68037-42-3 | Data not available-insufficient   | N/A     | N/A                           | N/A                                  | N/A                                 |
| Butanone  | 78-93-3    | Experimental Biodegradation       | 28 days | BOD                           | 98 %BOD/ThOD                         | OECD 301D - Closed bottle test      |
| Polychloroprene   | 9010-98-4  | Data not available-insufficient   | N/A     | N/A                           | N/A                                  | N/A                                 |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | 25085-50-1 | Experimental Biodegradation       | 28 days | CO2 evolution                 | 0 %CO2 evolution/THCO2 evolution     |                                     |
| Toluene   | 108-88-3   | Experimental Biodegradation       | 20 days | BOD                           | 80 %BOD/ThOD                         | APHA Std Meth Water/Wastewater      |
| Toluene   | 108-88-3   | Experimental Photolysis           |         | Photolytic half-life (in air) | 5.2 days (t 1/2)                     |                                     |
| Cyclohexane   | 110-82-7   | Experimental Biodegradation       | 28 days | BOD                           | 77 %BOD/ThOD                         | OECD 301F - Manometric respirometry |
| Cyclohexane   | 110-82-7   | Experimental Photolysis           |         | Photolytic half-life (in air) | 4.1 days (t 1/2)                     |                                     |
| Magnesium oxide   | 1309-48-4  | Data not available-insufficient   | N/A     | N/A                           | N/A                                  | N/A                                 |
| Methyl Acetate  | 79-20-9    | Experimental Biodegradation       | 28 days | BOD                           | 70 %BOD/ThOD                         | OECD 301D - Closed bottle test      |
| Rosin   | 8050-09-7  | Experimental Biodegradation       | 28 days | CO2 evolution                 | 64 %CO2 evolution/THCO2 evolution    | OECD 301B - Modified sturm or CO2   |
| Styrenated Phenol                                       | 61788-44-1 | Experimental Biodegradation       | 28 days | BOD                           | 7 %BOD/ThOD                          | OECD 301F - Manometric respirometry |
| Xylene  | 1330-20-7  | Experimental Biodegradation       | 28 days | BOD                           | 90-98 %BOD/ThOD                      | OECD 301F - Manometric respirometry |
| Xylene  | 1330-20-7  | Experimental Photolysis           |         | Photolytic half-life (in air) | 1.4 days (t 1/2)                     |                                     |
| Zinc oxide  | 1314-13-2  | Data not available-insufficient   | N/A     | N/A                           | N/A                                  | N/A                                 |
| Ethylbenzene  | 100-41-4   | Experimental Biodegradation       | 28 days | CO2 evolution                 | 70-80 %CO2 evolution/THCO2 evolution | ISO 14593 Inorg C Headspace         |
| Ethylbenzene  | 100-41-4   | Experimental Photolysis           |         | Photolytic half-life (in air) | 4.26 days (t 1/2)                    |                                     |
| Methanol  | 67-56-1    | Experimental Biodegradation       | 3 days  | Percent degraded              | 91 %degraded                         |                                     |
| Methanol  | 67-56-1    | Experimental Biodegradation       | 14 days | BOD                           | 92 %BOD/ThOD                         | 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/THCO2 evolution |  |
|----------|---------|--------------------------------------|--------|---------------|-------------------------------------|--|

### 12.3 : Bioaccumulative potential

| Material  | CAS Nbr    | Test type   | Duration | Study Type             | Test result | Protocol                     |
|---|------------|---|----------|------------------------|-------------|------------------------------|
| C10-13-iso-Alkanes                                      | 64741-84-0 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                          |
| Acetone   | 67-64-1    | Experimental BCF - Other                              |          | Bioaccumulation factor | 0.65        |                              |
| Acetone   | 67-64-1    | Experimental Bioconcentration                         |          | Log Kow                | -0.24       |                              |
| n-Hexane  | 110-54-3   | Modeled Bioconcentration                              |          | Bioaccumulation factor | 50          | Catalogic™                   |
| Heptane   | 142-82-5   | Estimated Bioconcentration                            |          | Bioaccumulation factor | 105         |                              |
| 2-Methylpentane   | 107-83-5   | Estimated Bioconcentration                            |          | Bioaccumulation factor | 63          |                              |
| 3-Methylpentane   | 96-14-0    | Modeled Bioconcentration                              |          | Bioaccumulation factor | 81          | Catalogic™                   |
| 3-Methylpentane   | 96-14-0    | Experimental Bioconcentration                         |          | Log Kow                | 3.6         |                              |
| Magnesium Resinate                                      | 68037-42-3 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                          |
| Butanone  | 78-93-3    | Experimental Bioconcentration                         |          | Log Kow                | 0.3         | OECD 117 log Kow HPLC method |
| Polychloroprene   | 9010-98-4  | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                          |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | 25085-50-1 | Estimated Bioconcentration                            |          | Bioaccumulation factor | 7.4         |                              |
| Toluene   | 108-88-3   | Experimental BCF - Other                              | 72 hours | Bioaccumulation factor | 90          |                              |
| Toluene   | 108-88-3   | Experimental Bioconcentration                         |          | Log Kow                | 2.73        |                              |
| Cyclohexane   | 110-82-7   | Experimental BCF - Fish                               | 56 days  | Bioaccumulation factor | 129         | OECD305-Bioconcentration     |
| Cyclohexane   | 110-82-7   | Experimental Bioconcentration                         |          | Log Kow                | 3.44        |                              |
| Magnesium oxide   | 1309-48-4  | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                          |
| Methyl Acetate  | 79-20-9    | Experimental Bioconcentration                         |          | Log Kow                | 0.18        |                              |
| Rosin   | 8050-09-7  | Analogous Compound BCF - Fish                         | 20 days  | Bioaccumulation factor | 129         |                              |
| Styrenated Phenol                                       | 61788-44-1 | Experimental BCF - Fish                               | 10 days  | Bioaccumulation factor | 10395       |                              |
| Xylene  | 1330-20-7  | Experimental BCF - Fish                               | 56 days  | Bioaccumulation factor | 25.9        |                              |
| Zinc oxide  | 1314-13-2  | Experimental BCF - Fish                               | 56 days  | Bioaccumulation factor | ≤217        | OECD305-Bioconcentration     |
| Ethylbenzene  | 100-41-4   | Experimental BCF - Fish                               | 42 days  | Bioaccumulation factor | 1           |                              |
| Methanol  | 67-56-1    | Experimental BCF - Fish                               | 3 days   | Bioaccumulation factor | <4.5        |                              |
| Methanol  | 67-56-1    | Experimental Bioconcentration                         |          | Log Kow                | -0.77       |                              |

### 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

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

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.

### SECTION 14: Transport Information

#### International Regulations

UN No.: UN1133

UN Proper shipping name: Adhesives

Transportation Class (IMO): 3-3 Flammable liquid

Transportation Class (IATA): 3-3 Flammable liquid

Other Dangerous Goods Descriptions (IMO): None assigned

Other Dangerous Goods Descriptions (IATA): None assigned

Packing Group: II

Marine pollutant: Yes

### SECTION 15: Regulatory information

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

##### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

##### This product may contain component(s) that are regulated by the following:

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations: this product is subject to SDS, labelling, PEL and other requirements in the Act/Regulations.

Fire Safety (Petroleum and Flammable Materials) Regulations: This product is subject to the requirements in the Regulations

Environmental Protection and Management (Hazardous Substances) Regulations: This product is subject to the requirements in the Regulations

### SECTION 16: Other information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the



product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**3M Singapore SDSs are available at [www.3m.com.sg](http://www.3m.com.sg)**