



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

3M Scotch-Weld™ Neoprene High Performance Contact Adhesive EC-1357 Grey-Green

#### Product Identification Numbers

62-1357-6540-2      87-2500-0422-0

7000000802      7000058947

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Contact Adhesive

#### 1.3. Details of the supplier of the safety data sheet

**Address:** 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.  
**Telephone:** +44 (0)1344 858 000  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com/uk

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

The aspiration hazard classification is not required due to the product's viscosity.

**CLASSIFICATION:**

Flammable Liquid, Category 2 - Flam. Liq. 2; H225  
 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315  
 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319  
 Skin Sensitization, Category 1A - Skin Sens. 1A; H317  
 Reproductive Toxicity, Category 2 - Repr. 2; H361  
 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373  
 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336  
 Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

**2.2. Label elements**

**CLP REGULATION (EC) No 1272/2008**

**SIGNAL WORD**

DANGER.

**Symbols**

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

**Pictograms**



**Ingredients:**

| Ingredient  | CAS Nbr    | EC No.    | % by Wt |
|---|------------|-----------|---------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane |            | 924-168-8 | 40 - 50 |
| toluene   | 108-88-3   | 203-625-9 | 3 - 7   |
| rosin   | 8050-09-7  | 232-475-7 | < 1     |
| Phenol, styrenated  | 61788-44-1 | 262-975-0 | < 0.5   |

**HAZARD STATEMENTS:**

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.  |
| H315   | Causes skin irritation.  |
| H319   | Causes serious eye irritation.   |
| H317   | May cause an allergic skin reaction.   |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child.           |
| H336   | May cause drowsiness or dizziness.   |
| H373   | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| H411   | Toxic to aquatic life with long lasting effects.                                   |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

|       |  |
|-------|--|
| P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260E | Do not breathe vapour or spray.  |
| P273  | Avoid release to the environment.  |

P280K Wear protective gloves and respiratory protection.

**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.

**For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:**

**<=125 ml Hazard statements**

H317 May cause an allergic skin reaction.  
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

**<=125 ml Precautionary statements**

**Prevention:**

P280K Wear protective gloves and respiratory protection.

**Response:**

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

11% of the mixture consists of components of unknown acute inhalation toxicity.  
 Contains 19% of components with unknown hazards to the aquatic environment.

**2.3. Other hazards**

None known.

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

**3.1. Substances**

Not applicable

**3.2. Mixtures**

| Ingredient  | Identifier(s)   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|---------|---|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | (EC-No.) 924-168-8  | 40 - 50 | Aquatic Chronic 2, H411<br>Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Repr. 2, H361f<br>STOT SE 3, H336<br>STOT RE 2, H373 |
| acetone   | (CAS-No.) 67-64-1<br>(EC-No.) 200-662-2<br>(REACH-No.) 01-2119471330-49 | 10 - 20 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066   |
| Polychloroprene   | (CAS-No.) 9010-98-4   | 7 - 13  | Substance not classified as hazardous   |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol           | (CAS-No.) 25085-50-1  | 7 - 13  | Substance not classified as hazardous   |
| butanone  | (CAS-No.) 78-93-3<br>(EC-No.) 201-159-0                                 | 7 - 13  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319  |

|                    |  |        |   |
|--------------------|--|--------|---|
|                    |  |        | STOT SE 3, H336<br>EUH066   |
| toluene            | (CAS-No.) 108-88-3<br>(EC-No.) 203-625-9<br>(REACH-No.) 01-2119471310-51 | 3 - 7  | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412 |
| Magnesium oxide    | (CAS-No.) 1309-48-4<br>(EC-No.) 215-171-9                                | <= 5   | Substance with a national occupational exposure limit   |
| methyl acetate     | (CAS-No.) 79-20-9<br>(EC-No.) 201-185-2                                  | <= 1.5 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066   |
| zinc oxide         | (CAS-No.) 1314-13-2<br>(EC-No.) 215-222-5                                | < 1    | Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1  |
| rosin              | (CAS-No.) 8050-09-7<br>(EC-No.) 232-475-7                                | < 1    | Skin Sens. 1B, H317   |
| Phenol, styrenated | (CAS-No.) 61788-44-1<br>(EC-No.) 262-975-0                               | < 0.5  | Skin Sens. 1A, H317<br>Aquatic Chronic 2, H411  |
| ethylbenzene       | (CAS-No.) 100-41-4<br>(EC-No.) 202-849-4                                 | < 0.5  | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>Asp. Tox. 1, H304<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412                                       |
| methanol           | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6                                  | < 0.2  | Flam. Liq. 2, H225<br>Acute Tox. 3, H331<br>Acute Tox. 3, H311<br>Acute Tox. 3, H301<br>STOT SE 1, H370   |

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

Please see section 16 for the full text of any H statements referred to in this section

**Specific Concentration Limits**

| <b>Ingredient</b> | <b>Identifier(s)</b>                    | <b>Specific Concentration Limits</b>                          |
|-------------------|---|---|
| methanol          | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6 | (C >= 10%) STOT SE 1, H370<br>(3% =< C < 10%) STOT SE 2, H371 |

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

**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

The most important symptoms and effects based on the CLP classification include:  
Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. 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. 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

| <u>Substance</u>  | <u>Condition</u>   |
|-------------------|--------------------|
| Aldehydes.        | During combustion. |
| Hydrocarbons.     | During combustion. |
| formaldehyde      | During combustion. |
| Carbon monoxide   | During combustion. |
| Carbon dioxide.   | During combustion. |
| Hydrogen Chloride | During combustion. |
| Ketones.          | During combustion. |

### 5.3. Advice 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 vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours 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.

**6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

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 vapour 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 acids. Store away from oxidising agents.

**7.3. Specific end use(s)**

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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

**8.1 Control parameters**

**Occupational exposure limits**

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

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>Agency</b> | <b>Limit type</b>  | <b>Additional comments</b> |
|-------------------|----------------|---------------|--|----------------------------|
| ethylbenzene      | 100-41-4       | UK HSC        | TWA:441 mg/m <sup>3</sup> (100 ppm);STEL:552 mg/m <sup>3</sup> (125 ppm)   | SKIN                       |
| toluene           | 108-88-3       | UK HSC        | TWA: 191 mg/m <sup>3</sup> (50 ppm); STEL: 384 mg/m <sup>3</sup> (100 ppm) | SKIN                       |
| Magnesium oxide   | 1309-48-4      | UK HSC        | TWA (as Mg, respirable dust/fume): 4 mg/m <sup>3</sup> ; TWA (as           |                            |

|                         |           |        |   |                        |
|-------------------------|-----------|--------|---|------------------------|
| DUST, INERT OR NUISANCE | 1314-13-2 | UK HSC | Mg, inhalable dust): 10 mg/m <sup>3</sup><br>TWA(as respirable dust):4 mg/m <sup>3</sup> ;TWA(as inhalable dust):10 mg/m <sup>3</sup> |                        |
| methanol                | 67-56-1   | UK HSC | TWA:266 mg/m <sup>3</sup> (200 ppm);STEL:333 mg/m <sup>3</sup> (250 ppm)  | SKIN                   |
| acetone                 | 67-64-1   | UK HSC | TWA:1210 mg/m <sup>3</sup> (500 ppm);STEL:3620 mg/m <sup>3</sup> (1500 ppm)   |                        |
| butanone                | 78-93-3   | UK HSC | TWA: 600 mg/m <sup>3</sup> (200 ppm);<br>STEL: 899 mg/m <sup>3</sup> (300 ppm)  | SKIN                   |
| methyl acetate          | 79-20-9   | UK HSC | TWA:616 mg/m <sup>3</sup> (200 ppm);STEL:770 mg/m <sup>3</sup> (250 ppm)  |                        |
| rosin                   | 8050-09-7 | UK HSC | TWA(as fume):0.05 mg/m <sup>3</sup> ;STEL(as fume):0.15 mg/m <sup>3</sup>   | Respiratory Sensitizer |

UK HSC : UK Health and Safety Commission  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

**Biological limit values**

| Ingredient | CAS Nbr | Agency           | Determinant | Biological Specimen | Sampling Time | Value     | Additional comments |
|------------|---------|------------------|-------------|---------------------|---------------|-----------|---------------------|
| butanone   | 78-93-3 | UK EH40<br>BMGVs | Butan-2-one | Urine               | EOS           | 70 umol/L |                     |

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)  
EOS: End of shift.

**Derived no effect level (DNEL)**

| Ingredient | Degradation Product | Population | Human exposure pattern                                     | DNEL                    |
|------------|---------------------|------------|--|-------------------------|
| acetone    |                     | Worker     | Dermal, Long-term exposure (8 hours), Systemic effects     | 186 mg/kg bw/d          |
| acetone    |                     | Worker     | Inhalation, Long-term exposure (8 hours), Systemic effects | 1,210 mg/m <sup>3</sup> |
| acetone    |                     | Worker     | Inhalation, Short-term exposure, Local effects             | 2,420 mg/m <sup>3</sup> |
| toluene    |                     | Worker     | Dermal, Long-term exposure (8 hours), Systemic effects     | 384 mg/kg bw/d          |
| toluene    |                     | Worker     | Inhalation, Long-term exposure (8 hours), Local effects    | 192 mg/m <sup>3</sup>   |
| toluene    |                     | Worker     | Inhalation, Long-term exposure (8 hours), Systemic effects | 192 mg/m <sup>3</sup>   |
| toluene    |                     | Worker     | Inhalation, Short-term exposure, Local effects             | 384 mg/m <sup>3</sup>   |
| toluene    |                     | Worker     | Inhalation, Short-term exposure, Systemic effects          | 384 mg/m <sup>3</sup>   |

**Predicted no effect concentrations (PNEC)**

| Ingredient | Degradation Product | Compartment                    | PNEC            |
|------------|---------------------|--------------------------------|-----------------|
| acetone    |                     | Agricultural soil              | 29.5 mg/kg d.w. |
| acetone    |                     | Freshwater                     | 10.6 mg/l       |
| acetone    |                     | Freshwater sediments           | 30.4 mg/kg d.w. |
| acetone    |                     | Intermittent releases to water | 21 mg/l         |
| acetone    |                     | Marine water                   | 1.06 mg/l       |
| acetone    |                     | Marine water sediments         | 3.04 mg/kg d.w. |
| acetone    |                     | Sewage Treatment Plant         | 100 mg/l        |
| toluene    |                     | Agricultural soil              | 2.89 mg/kg d.w. |
| toluene    |                     | Freshwater                     | 0.68 mg/l       |
| toluene    |                     | Sewage Treatment Plant         | 13.61 mg/l      |

**Recommended monitoring procedures:** Information on recommended monitoring procedures can be obtained from UK HSC

**8.2. Exposure controls**

In addition, refer to the annex for more information.

**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.

*Applicable Norms/Standards*

Use eye/face protection conforming to EN 166

**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:

**Material**  
Polymer laminate

**Thickness (mm)**  
No data available

**Breakthrough Time**  
No data available

*Applicable Norms/Standards*

Use gloves tested to EN 374



If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### Respiratory protection

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

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

Half facepiece or full facepiece supplied-air respirator

Organic vapour respirators may have short service life.

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

#### Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136

Use a respirator conforming to EN 140 or EN 136: filter types A & P

### 8.2.3. Environmental exposure controls

Refer to Annex

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| <b>Physical state</b>                         | Liquid.  |
| <b>Colour</b>                                 | Grey, Green  |
| <b>Odor</b>                                   | Strong Petroleum                                     |
| <b>Odour threshold</b>                        | <i>No data available.</i>                            |
| <b>Melting point/freezing point</b>           | <i>No data available.</i>                            |
| <b>Boiling point/boiling range</b>            | 55.6 °C [ <i>Details:CONDITIONS: (acetone)</i> ]     |
| <b>Flammability (solid, gas)</b>              | Not applicable.                                      |
| <b>Flammable Limits(LEL)</b>                  | 1 % volume   |
| <b>Flammable Limits(UEL)</b>                  | 12.8 % volume  |
| <b>Flash point</b>                            | -25.6 °C [ <i>Test Method:Tagliabue closed cup</i> ] |
| <b>Autoignition temperature</b>               | <i>No data available.</i>                            |
| <b>Decomposition temperature</b>              | <i>No data available.</i>                            |
| <b>pH</b>                                     |  |
| <b>Kinematic Viscosity</b>                    | 714.285714285714 mm <sup>2</sup> /sec                |
| <b>Water solubility</b>                       | Slight (less than 10%)                               |
| <b>Solubility- non-water</b>                  | <i>No data available.</i>                            |
| <b>Partition coefficient: n-octanol/water</b> | <i>No data available.</i>                            |
| <b>Vapour pressure</b>                        | 23,998 Pa [ <i>Details:CONDITIONS: @ 68F</i> ]       |
| <b>Density</b>                                | 0.84 g/ml  |
| <b>Relative density</b>                       | 0.84 [ <i>Ref.Std:WATER=1</i> ]                      |
| <b>Relative Vapor Density</b>                 | 3 [ <i>Ref.Std:AIR=1</i> ]                           |

### 9.2. Other information

#### 9.2.2 Other safety characteristics

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>EU Volatile Organic Compounds</b> | <i>No data available.</i>      |
| <b>Evaporation rate</b>              | >=2 [ <i>Ref.Std:WATER=1</i> ] |
| <b>Molecular weight</b>              | <i>No data available.</i>      |
| <b>Percent volatile</b>              | 80 %                           |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 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 localised 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-Vapour(4 hr)     |                        | No data available; calculated ATE >50 mg/l     |
| Overall product   | Ingestion                   |                        | No data available; calculated ATE >5,000 mg/kg |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Dermal                      | Rat                    | LD50 > 2,800 mg/kg                             |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation-Vapour (4 hours) | Rat                    | LC50 > 25.2 mg/l                               |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Ingestion                   | Rat                    | LD50 > 5,840 mg/kg                             |
| acetone   | Dermal                      | Rabbit                 | LD50 > 15,688 mg/kg                            |
| acetone   | Inhalation-Vapour (4 hours) | Rat                    | LC50 76 mg/l                                   |
| acetone   | Ingestion                   | Rat                    | LD50 5,800 mg/kg                               |
| butanone  | Dermal                      | Rabbit                 | LD50 > 8,050 mg/kg                             |
| butanone  | Inhalation-Vapour (4 hours) | Rat                    | LC50 34.5 mg/l                                 |
| butanone  | Ingestion                   | Rat                    | LD50 2,737 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-Vapour (4 hours) | Rat                    | LC50 30 mg/l                                   |
| 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                               |
| Magnesium oxide   | Dermal                      | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg       |

**3M Scotch-Weld™ Neoprene High Performance Contact Adhesive EC-1357 Grey-Green**

|                    |                                | nt     |  |
|--------------------|--------------------------------|--------|--|
| Magnesium oxide    | Ingestion                      | Rat    | LD50 3,870 mg/kg                         |
| methyl acetate     | Dermal                         | Rat    | LD50 > 2,000 mg/kg                       |
| methyl acetate     | Inhalation-Vapour (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                         |
| ethylbenzene       | Dermal                         | Rabbit | LD50 15,433 mg/kg                        |
| ethylbenzene       | Inhalation-Vapour (4 hours)    | Rat    | LC50 17.4 mg/l                           |
| ethylbenzene       | Ingestion                      | Rat    | LD50 4,769 mg/kg                         |
| Phenol, styrenated | Dermal                         | Rat    | LD50 > 2,000 mg/kg                       |
| Phenol, styrenated | Ingestion                      | Rat    | LD50 > 2,000 mg/kg                       |
| methanol           | Dermal                         |        | LD50 estimated to be 1,000 - 2,000 mg/kg |
| methanol           | Inhalation-Vapour              |        | LC50 estimated to be 10 - 20 mg/l        |
| methanol           | Ingestion                      |        | LD50 estimated to be 50 - 300 mg/kg      |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Rabbit                 | Irritant                  |
| acetone   | Mouse                  | Minimal irritation        |
| butanone  | Rabbit                 | Minimal irritation        |
| Polychloroprene   | Human                  | No significant irritation |
| toluene   | Rabbit                 | Irritant                  |
| Magnesium oxide   | Professional judgement | No significant irritation |
| methyl acetate  | Rabbit                 | No significant irritation |
| zinc oxide  | Human and animal       | No significant irritation |
| rosin   | Rabbit                 | No significant irritation |
| ethylbenzene  | Rabbit                 | Mild irritant             |
| Phenol, styrenated  | Rabbit                 | No significant irritation |
| methanol  | Rabbit                 | Mild irritant             |

**Serious Eye Damage/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Rabbit                 | Mild irritant             |
| acetone   | Rabbit                 | Severe irritant           |
| butanone  | Rabbit                 | Severe irritant           |
| Polychloroprene   | Professional judgement | No significant irritation |
| toluene   | Rabbit                 | Moderate irritant         |
| methyl acetate  | Rabbit                 | Moderate irritant         |
| zinc oxide  | Rabbit                 | Mild irritant             |
| rosin   | Rabbit                 | Mild irritant             |

|                    |        |                   |
|--------------------|--------|-------------------|
| ethylbenzene       | Rabbit | Moderate irritant |
| Phenol, styrenated | Rabbit | Mild irritant     |
| methanol           | Rabbit | Moderate irritant |

**Skin Sensitisation**

| Name  | Species    | Value  |
|---|------------|--|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Guinea pig | 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  |
| ethylbenzene  | Human      | Not classified   |
| Phenol, styrenated  | Mouse      | Sensitising  |
| methanol  | Guinea pig | Not classified   |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name            | Route    | Value  |
|-----------------|----------|--|
| acetone         | In vivo  | Not mutagenic  |
| acetone         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| butanone        | In Vitro | Not mutagenic  |
| toluene         | In Vitro | Not mutagenic  |
| toluene         | In vivo  | Not mutagenic  |
| 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 |
| ethylbenzene    | In vivo  | Not mutagenic  |
| ethylbenzene    | In Vitro | 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 |

**Carcinogenicity**

| Name     | Route          | Species                 | Value  |
|----------|----------------|-------------------------|--|
| 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 |
| ethylbenzene    | Inhalation     | Multiple animal species | Carcinogenic.  |
| methanol        | Inhalation     | Multiple animal species | Not carcinogenic   |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name  | Route      | Value  | Species                 | Test result           | Exposure Duration            |
|---|------------|--|-------------------------|-----------------------|------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Ingestion  | Toxic to male reproduction                         | similar compounds       | NOAEL Not available   | not available                |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation | Toxic to male reproduction                         | similar compounds       | NOAEL Not available   | not available                |
| 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       |
| zinc oxide  | Ingestion  | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day   | premating & during gestation |
| ethylbenzene  | Inhalation | Not classified for development                     | Rat                     | NOAEL 4.3 mg/l        | premating & 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         |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name  | Route      | Target Organ(s)                   | Value                             | Species           | Test result         | Exposure Duration |
|---|------------|-----------------------------------|-----------------------------------|-------------------|---------------------|-------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | similar compounds | NOAEL Not available | not available     |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Ingestion  | central nervous system depression | May cause drowsiness or dizziness | similar compounds | NOAEL Not available | not available     |
| acetone   | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human             | NOAEL Not available |                   |

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

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure |
|------|-------|-----------------|-------|---------|-------------|----------|
|------|-------|-----------------|-------|---------|-------------|----------|

**3M Scotch-Weld™ Neoprene High Performance Contact Adhesive EC-1357 Grey-Green**

|   |            |  |  |                   |                        | <b>Duration</b>        |
|---|------------|--|--|-------------------|------------------------|------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Inhalation | peripheral nervous system  | May cause damage to organs though prolonged or repeated exposure             | similar compounds | NOAEL Not available    | not available          |
| 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 mg/kg/day  | 13 weeks               |
| acetone   | Ingestion  | hematopoietic system   | Not classified   | Rat               | 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               |
| 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                |
| 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  | Not classified   | Human             | NOAEL Not available    | occupational           |



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|                |            |   |  |                         |                       |           |
|----------------|------------|---|--|-------------------------|-----------------------|-----------|
|                |            | system   vascular system  |  |                         | available             | exposure  |
| toluene        | Inhalation | gastrointestinal tract  | Not classified   | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks  |
| toluene        | Ingestion  | nervous system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks  |
| toluene        | Ingestion  | heart   | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks  |
| toluene        | Ingestion  | liver   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   |
| 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  |
| 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 system  | Not classified   | Multiple animal species | NOAEL 3.3 mg/l        | 2 years   |
| ethylbenzene   | Ingestion  | liver   kidney and/or bladder   | Not classified   | Rat                     | NOAEL 680 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   |

**Aspiration Hazard**

| Name | Value |
|------|-------|
|------|-------|

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|   |                   |
|---|-------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | Aspiration hazard |
| toluene   | Aspiration hazard |
| ethylbenzene  | 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.

**11.2. Information on other hazards**

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

**SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

**12.1. Toxicity**

No product test data available.

| Material  | CAS #     | Organism         | Type         | Exposure | Test endpoint | Test result |
|---|-----------|------------------|--------------|----------|---------------|-------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Green Algae      | Estimated    | 72 hours | EL50          | 30-100 mg/l |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Rainbow trout    | Estimated    | 96 hours | LL50          | 11.4 mg/l   |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Water flea       | Estimated    | 48 hours | EL50          | 3 mg/l      |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Green Algae      | Estimated    | 72 hours | NOEL          | 3 mg/l      |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8 | Water flea       | Estimated    | 21 days  | NOEC          | 0.17 mg/l   |
| acetone   | 67-64-1   | Algae other      | Experimental | 96 hours | EC50          | 11,493 mg/l |
| acetone   | 67-64-1   | Crustacea other  | 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        |
| butanone  | 78-93-3   | Activated sludge | Experimental | 12 hours | IC50          | 1,873 mg/l  |
| butanone  | 78-93-3   | Bacteria         | Experimental | 16 hours | NOEC          | 1,150 mg/l  |
| butanone  | 78-93-3   | Fathead minnow   | Experimental | 96 hours | LC50          | 2,993 mg/l  |
| butanone  | 78-93-3   | Green algae      | Experimental | 96 hours | EC50          | 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 | EC10          | 1,289 mg/l  |

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|   |            |                  |   |          |      |                              |
|---|------------|------------------|---|----------|------|------------------------------|
| butanone  | 78-93-3    | Water flea       | Experimental  | 21 days  | NOEC | 100 mg/l                     |
| Polychloroprene   | 9010-98-4  |                  | Data not available or insufficient for classification |          |      | N/A                          |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol | 25085-50-1 |                  | Data not available or insufficient for classification |          |      | 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)       |
| Magnesium oxide   | 1309-48-4  |                  | Data not available or insufficient for classification |          |      | 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 | EC50 | >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  |          | 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                     |
| 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                   |

**3M Scotch-Weld™ Neoprene High Performance Contact Adhesive EC-1357 Grey-Green**

|                    |            |                               |              |          |      |             |
|--------------------|------------|-------------------------------|--------------|----------|------|-------------|
| 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   |
| Phenol, styrenated | 61788-44-1 | Activated sludge              | Experimental | 3 hours  | EC50 | 362 mg/l    |
| Phenol, styrenated | 61788-44-1 | Green algae                   | Experimental | 72 hours | EC50 | 1.35 mg/l   |
| Phenol, styrenated | 61788-44-1 | Medaka                        | Experimental | 96 hours | LC50 | 5.6 mg/l    |
| Phenol, styrenated | 61788-44-1 | Water flea                    | Experimental | 48 hours | EC50 | 4.6 mg/l    |
| Phenol, styrenated | 61788-44-1 | Green Algae                   | Experimental | 72 hours | NOEC | 0.42 mg/l   |
| Phenol, styrenated | 61788-44-1 | Water flea                    | Experimental | 21 days  | NOEC | 0.2 mg/l    |
| methanol           | 67-56-1    | Activated sludge              | Experimental | 3 hours  | IC50 | >1,000 mg/l |
| methanol           | 67-56-1    | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 16.9 mg/l   |
| methanol           | 67-56-1    | Bluegill                      | Experimental | 96 hours | LC50 | 15,400 mg/l |
| methanol           | 67-56-1    | Green Algae                   | Experimental | 96 hours | EC50 | 22,000 mg/l |
| methanol           | 67-56-1    | Water flea                    | Experimental | 24 hours | EC50 | 20,803 mg/l |
| methanol           | 67-56-1    | Algae or other aquatic plants | Experimental | 96 hours | NOEC | 9.96 mg/l   |
| methanol           | 67-56-1    | Water flea                    | Experimental | 21 days  | NOEC | 122 mg/l    |

**12.2. Persistence and degradability**

| Material  | CAS Nbr    | Test type                         | Duration | Study Type                    | Test result                       | Protocol                            |
|---|------------|-----------------------------------|----------|-------------------------------|-----------------------------------|-------------------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8  | Estimated Biodegradation          | 28 days  | BOD                           | 98 % BOD/ThBOD                    | OECD 301F - Manometric respirometry |
| acetone   | 67-64-1    | Experimental Photolysis           |          | Photolytic half-life (in air) | 147 days (t 1/2)                  |                                     |
| acetone   | 67-64-1    | Experimental Biodegradation       | 28 days  | BOD                           | 78 % BOD/ThBOD                    | OECD 301D - Closed bottle test      |
| butanone  | 78-93-3    | Experimental Biodegradation       | 28 days  | BOD                           | 98 % BOD/ThBOD                    | OECD 301D - Closed bottle test      |
| Polychloroprene   | 9010-98-4  | Data not available - insufficient |          |                               | N/A                               |                                     |
| Formaldehyde, polymer with 4-(1,1-dimethylethyl) phenol           | 25085-50-1 | Experimental Biodegradation       | 28 days  | CO2 evolution                 | 0 %CO2 evolution/THC O2 evolution |                                     |
| toluene   | 108-88-3   | Experimental Photolysis           |          | Photolytic half-life (in air) | 5.2 days (t 1/2)                  |                                     |
| toluene   | 108-88-3   | Experimental Biodegradation       | 20 days  | BOD                           | 80 % BOD/ThBOD                    | APHA Std Meth Water/Wastewater      |
| Magnesium oxide   | 1309-48-4  | Data not available - insufficient |          |                               | N/A                               |                                     |

**3M Scotch-Weld™ Neoprene High Performance Contact Adhesive EC-1357 Grey-Green**

|                    |            |                                   |         |                               |                                       |                                     |
|--------------------|------------|-----------------------------------|---------|-------------------------------|---------------------------------------|-------------------------------------|
| methyl acetate     | 79-20-9    | Experimental Biodegradation       | 28 days | BOD                           | 70 % weight                           | OECD 301D - Closed bottle test      |
| rosin              | 8050-09-7  | Experimental Biodegradation       | 28 days | CO2 evolution                 | 64 % weight                           | OECD 301B - Modified sturm or CO2   |
| zinc oxide         | 1314-13-2  | Data not available - insufficient |         |                               | N/A                                   |                                     |
| ethylbenzene       | 100-41-4   | Experimental Photolysis           |         | Photolytic half-life (in air) | 4.26 days (t <sub>1/2</sub> )         | Non-standard method                 |
| ethylbenzene       | 100-41-4   | Experimental Biodegradation       | 28 days | CO2 evolution                 | 70-80 %CO2 evolution/THC O2 evolution | ISO 14593 Inorg C Headspace         |
| Phenol, styrenated | 61788-44-1 | Experimental Biodegradation       | 28 days | BOD                           | 7 % BOD/ThBOD                         | OECD 301F - Manometric respirometry |
| methanol           | 67-56-1    | Experimental Biodegradation       | 14 days | BOD                           | 92 % BOD/ThBOD                        | OECD 301C - MITI test (I)           |

**12.3 : Bioaccumulative potential**

| Material  | Cas No.    | Test type   | Duration | Study Type             | Test result | Protocol   |
|---|------------|---|----------|------------------------|-------------|--|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane | 924-168-8  | 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       |  |
| butanone  | 78-93-3    | Experimental Bioconcentration                         |          | Log Kow                | 0.29        | Non-standard 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         | Non-standard method                                |
| toluene   | 108-88-3   | Experimental BCF - Other                              | 72 hours | Bioaccumulation factor | 90          |  |
| toluene   | 108-88-3   | Experimental Bioconcentration                         |          | Log Kow                | 2.73        |  |
| 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        | Non-standard method                                |
| rosin   | 8050-09-7  | Estimated BCF - Rainbow Trout                         | 20 days  | Bioaccumulation factor | 129         | Non-standard method                                |
| zinc oxide  | 1314-13-2  | Experimental BCF - Carp                               | 56 days  | Bioaccumulation factor | ≤217        | OECD 305E - Bioaccumulation flow-through fish test |
| ethylbenzene  | 100-41-4   | Experimental BCF - Salmon                             | 42 days  | Bioaccumulation factor | 1           | Non-standard method                                |
| Phenol, styrenated  | 61788-44-1 | Experimental BCF - Rainbow Trout                      | 10 days  | Bioaccumulation factor | 10395       |  |
| methanol  | 67-56-1    | Experimental Bioconcentration                         |          | Log Kow                | -0.77       | Non-standard method                                |

**12.4. Mobility in soil**

| Material           | Cas No.    | Test type                     | Study Type | Test result | Protocol  |
|--------------------|------------|-------------------------------|------------|-------------|-----------|
| acetone            | 67-64-1    | Modeled Mobility in Soil      | Koc        | 9.7 l/kg    | Episuite™ |
| toluene            | 108-88-3   | Experimental Mobility in Soil | Koc        | 37 l/kg     |           |
| Phenol, styrenated | 61788-44-1 | Estimated Mobility in Soil    | Koc        | ≥2 l/kg     | Episuite™ |

**12.5. Results of the PBT and vPvB assessment**

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Endocrine disrupting properties**

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

**EU waste code (product as sold)**

- 08 04 09\* Waste adhesives and sealants containing organic solvents or other dangerous substances
- 20 01 27\* Paint, inks, adhesives and resins containing dangerous substances

**SECTION 14: Transportation information**

|  | <b>Ground Transport (ADR)</b> | <b>Air Transport (IATA)</b> | <b>Marine Transport (IMDG)</b> |
|--|-------------------------------|-----------------------------|--------------------------------|
| <b>14.1 UN number</b>                  | UN1133                        | UN1133                      | UN1133                         |
| <b>14.2 UN proper shipping name</b>    | ADHESIVES                     | ADHESIVES                   | ADHESIVES                      |
| <b>14.3 Transport hazard class(es)</b> | 3                             | 3                           | 3                              |
| <b>14.4 Packing group</b>              | II                            | II                          | II                             |
| <b>14.5 Environmental hazards</b>      | Not Environmentally Hazardous | Not applicable              | Not a Marine Pollutant         |

|  |  |  |  |
|--|--|--|--|
| <b>14.6 Special precautions for user</b>   | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| <b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code</b> | No data available.   | No data available.   | No data available.   |
| <b>Control Temperature</b>   | No data available.   | No data available.   | No data available.   |
| <b>Emergency Temperature</b>   | No data available.   | No data available.   | No data available.   |
| <b>ADR Tunnel Code</b>   | (E)  | Not applicable.  | Not applicable.  |
| <b>ADR Classification Code</b>   | F1   | Not applicable.  | Not applicable.  |
| <b>ADR Transport Category</b>  | 4  | Not applicable.  | Not applicable.  |
| <b>ADR Multiplier</b>  | 0  | 0  | 0  |
| <b>IMDG Segregation Code</b>   | Not applicable.  | Not applicable.  | NONE   |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## SECTION 15: Regulatory information

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

#### Carcinogenicity

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u>         | <u>Regulation</u>                           |
|-------------------|----------------|-------------------------------|---|
| ethylbenzene      | 100-41-4       | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Polychloroprene   | 9010-98-4      | Gr. 3: Not classifiable       | International Agency for Research on Cancer |
| toluene           | 108-88-3       | Gr. 3: Not classifiable       | International Agency for Research on Cancer |

#### Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

| <u>Ingredient</u> | <u>CAS Nbr</u> |
|-------------------|----------------|
| methanol          | 67-56-1        |
| toluene           | 108-88-3       |

Restriction status: listed in REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

### 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.

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

## SECTION 16: Other information

### List of relevant H statements

|        |  |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking.                              |
| H225   | Highly flammable liquid and vapour.  |
| H301   | Toxic if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                                      |
| H311   | Toxic in contact with skin.  |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.   |
| H319   | Causes serious eye irritation.   |
| H331   | Toxic if inhaled.  |
| H332   | Harmful if inhaled.  |
| H336   | May cause drowsiness or dizziness.   |
| H361d  | Suspected of damaging the unborn child.  |
| H361f  | Suspected of damaging fertility.   |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child.           |
| H370   | Causes damage to organs.   |
| H373   | May cause damage to organs through prolonged or repeated exposure.                 |
| H373   | May cause damage to organs through prolonged or repeated exposure: nervous system. |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                              |
| H411   | Toxic to aquatic life with long lasting effects.                                   |
| H412   | Harmful to aquatic life with long lasting effects.                                 |

### Revision information:

EU Section 09: pH information information was added.  
Formulation: Section 16: Annex information was modified.  
Industrial Use of Adhesives and Sealants: Section 16: Annex information was modified.  
Industrial Use of Coatings: Section 16: Annex information was modified.  
Section 2: <125ml Precautionary - Prevention information was modified.  
CLP: Ingredient table information was modified.  
Label: CLP Percent Unknown information was added.  
Label: CLP Precautionary - Disposal information was deleted.  
Label: CLP Precautionary - Prevention information was modified.  
Section 03: Composition table % Column heading information was added.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 03: SCL table information was added.  
Section 03: Substance not applicable information was added.  
Section 04: First Aid - Symptoms and Effects (CLP) information was added.



Section 04: Information on toxicological effects information was modified.  
Section 5: Hazardous combustion products table information was modified.  
Section 8: Occupational exposure limit table information was modified.  
Section 8: Respiratory protection - recommended respirators information information was modified.  
Section 9: Evaporation Rate information information was deleted.  
Section 9: Explosive properties information information was deleted.  
Section 09: Kinematic Viscosity information information was added.  
Section 9: Melting point information information was modified.  
Section 9: Oxidising properties information information was deleted.  
Section 9: pH information information was deleted.  
Section 9: Property description for optional properties information was modified.  
Section 9: Vapour density value information was added.  
Section 9: Vapour density value information was deleted.  
Section 9: Viscosity information information was deleted.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Health Effects - Skin information information was modified.  
Section 11: No endocrine disruptor information available warning information was added.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: 12.6. Endocrine Disrupting Properties information was added.  
Section 12: 12.7. Other adverse effects information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Contact manufacturer for more detail. information was deleted.  
Section 12: Mobility in soil information information was added.  
Prints No Data if Adverse effects information is not present information was added.  
Section 12: No endocrine disruptor information available warning information was added.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Bioaccumulative potential information information was modified.  
Section 14 Classification Code – Main Heading information was added.  
Section 14 Classification Code – Regulation Data information was added.  
Section 14 Control Temperature – Main Heading information was added.  
Section 14 Control Temperature – Regulation Data information was added.  
Section 14 Disclaimer Information information was added.  
Section 14 Emergency Temperature – Main Heading information was added.  
Section 14 Emergency Temperature – Regulation Data information was added.  
Section 14 Hazard Class + Sub Risk – Main Heading information was added.  
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.  
Section 14 Hazardous/Not Hazardous for Transportation information was added.  
Section 14 Multiplier – Main Heading information was added.  
Section 14 Multiplier – Regulation Data information was added.  
Section 14 Other Dangerous Goods – Main Heading information was added.  
Section 14 Other Dangerous Goods – Regulation Data information was added.  
Section 14 Packing Group – Main Heading information was added.  
Section 14 Packing Group – Regulation Data information was added.  
Section 14 Proper Shipping Name information was added.  
Section 14 Regulations – Main Headings information was added.  
Section 14 Segregation – Regulation Data information was added.  
Section 14 Segregation Code – Main Heading information was added.  
Section 14 Special Precautions – Main Heading information was added.  
Section 14 Special Precautions – Regulation Data information was added.

Section 14 Transport Category – Main Heading information was added.  
 Section 14 Transport Category – Regulation Data information was added.  
 Section 14 Transport in bulk – Regulation Data information was added.  
 Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.  
 Section 14 Tunnel Code – Main Heading information was added.  
 Section 14 Tunnel Code – Regulation Data information was added.  
 Section 14 UN Number Column data information was added.  
 Section 14 UN Number information was added.  
 Section 15: Carcinogenicity information information was modified.  
 Section 15: Regulations - Inventories information was added.  
 Section 15: Restrictions on manufacture ingredients information information was modified.  
 Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.  
 information was modified.

## Annex

| 1. Title   |  |
|--|--|
| <b>Substance identification</b>                        | acetone;<br>EC No. 200-662-2;<br>CAS Nbr 67-64-1;  |
| <b>Exposure Scenario Name</b>                          | Formulation  |
| <b>Lifecycle Stage</b>                                 | Use at industrial sites  |
| <b>Contributing activities</b>                         | PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities<br>PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities<br>PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing)<br>ERC 02 -Formulation into mixture   |
| <b>Processes, tasks and activities covered</b>         | Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs. Transfers with dedicated controls, including loading, filling, dumping, bagging. Transfers without dedicated controls, including loading, filling, dumping, bagging.   |
| 2. Operational conditions and risk management measures |  |
| <b>Operating Conditions</b>                            | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of use: 8 hours/day;<br>Emission days per year: <= 360 days per year;   |
| <b>Risk management measures</b>                        | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Goggles - Chemical resistant;<br>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);<br>Wear chemically resistant gloves (tested to EN374) in combination with ‘basic’ employee training. Refer to Section 8 of the SDS for specific glove material.;<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b>                       | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:  |
| 3. Prediction of exposure                              |  |
| <b>Prediction of exposure</b>                          | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.   |

| 1. Title   |  |
|--|--|
| <b>Substance identification</b>                        | toluene;<br>EC No. 203-625-9;<br>CAS Nbr 108-88-3;   |
| <b>Exposure Scenario Name</b>                          | Formulation  |
| <b>Lifecycle Stage</b>                                 | Use at industrial sites  |
| <b>Contributing activities</b>                         | PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities<br>PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing)<br>ERC 02 -Formulation into mixture  |
| <b>Processes, tasks and activities covered</b>         | Transfer of substance/mixture with dedicated engineering controls. Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs.   |
| 2. Operational conditions and risk management measures |  |
| <b>Operating Conditions</b>                            | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Assumes use at not more than 20°C above ambient temperature;<br>Duration of exposure per day at workplace [for one worker]: 8 hours/day;<br>Duration of use: 5 days/week;<br>Emission days per year: 300 days/year;              |
| <b>Risk management measures</b>                        | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b>                       | Do not apply industrial sludge to natural soils;<br>Send to an industrial sewage treatment plant;  |
| 3. Prediction of exposure                              |  |
| <b>Prediction of exposure</b>                          | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.   |

| 1. Title   |   |
|--|---|
| <b>Substance identification</b>                        | acetone;<br>EC No. 200-662-2;<br>CAS Nbr 67-64-1;   |
| <b>Exposure Scenario Name</b>                          | Industrial Use of Adhesives and Sealants  |
| <b>Lifecycle Stage</b>                                 | Use at industrial sites   |
| <b>Contributing activities</b>                         | PROC 07 -Industrial spraying<br>ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)   |
| <b>Processes, tasks and activities covered</b>         | Spraying of substances/mixtures.  |
| 2. Operational conditions and risk management measures |   |
| <b>Operating Conditions</b>                            | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of use: 8 hours/day;<br>Emission days per year: <= 360 days per year;  |
| <b>Risk management measures</b>                        | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Goggles - Chemical resistant; |

|                                  |   |
|----------------------------------|---|
|                                  | <p>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);</p> <p>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.;</p> <p><b>Environmental:</b><br/>None needed;</p> <p>;</p> <p>The following task-specific risk management measures apply in addition to those listed above:</p> <p><b>Task: PROC07;</b><br/><b>Human Health;</b><br/>Local exhaust ventilation;</p> |
| <b>Waste management measures</b> | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:   |
| <b>3. Prediction of exposure</b> |   |
| <b>Prediction of exposure</b>    | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.  |

|   |   |
|---|---|
| <b>1. Title</b>   |   |
| <b>Substance identification</b>                               | toluene;<br>EC No. 203-625-9;<br>CAS Nbr 108-88-3;  |
| <b>Exposure Scenario Name</b>                                 | Industrial Use of Adhesives and Sealants  |
| <b>Lifecycle Stage</b>  | Use at industrial sites   |
| <b>Contributing activities</b>                                | <p>PROC 05 -Mixing or blending in batch processes</p> <p>PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities</p> <p>PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</p> <p>PROC 10 -Roller application or brushing</p> <p>PROC 13 -Treatment of articles by dipping and pouring</p> <p>ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</p> |
| <b>Processes, tasks and activities covered</b>                | Application of product with a roller or brush. Application of product. Mixing operations (open systems). Transfer of substance/mixture with dedicated engineering controls. Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs.   |
| <b>2. Operational conditions and risk management measures</b> |   |
| <b>Operating Conditions</b>                                   | <p><b>Physical state:</b>Liquid.</p> <p><b>General operating conditions:</b><br/>Assumes use at not more than 20°C above ambient temperature;<br/>Duration of exposure per day at workplace [for one worker]: 8 hours/day;<br/>Duration of use: 5 days/week;<br/>Emission days per year: 300 days/year;</p>   |
| <b>Risk management measures</b>                               | <p>Under the operational conditions described above the following risk management measures apply:</p> <p><b>General risk management measures:</b><br/><b>Human health:</b><br/>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);</p> <p><b>Environmental:</b><br/>Air abatement;</p>  |
| <b>Waste management measures</b>                              | Do not apply industrial sludge to natural soils;<br>Send to an industrial sewage treatment plant;   |
| <b>3. Prediction of exposure</b>                              |   |
| <b>Prediction of exposure</b>                                 | Human and environmental exposures are not expected to exceed the DNELs and  |

PNECs when the identified risk management measures are adopted.

| 1. Title   |  |
|--|--|
| <b>Substance identification</b>                        | acetone;<br>EC No. 200-662-2;<br>CAS Nbr 67-64-1;  |
| <b>Exposure Scenario Name</b>                          | Industrial Use of Coatings   |
| <b>Lifecycle Stage</b>                                 | Use at industrial sites  |
| <b>Contributing activities</b>                         | PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities<br>PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities<br>PROC 10 -Roller application or brushing<br>ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)   |
| <b>Processes, tasks and activities covered</b>         | Application of product with a roller or brush. Transfers with dedicated controls, including loading, filling, dumping, bagging. Transfers without dedicated controls, including loading, filling, dumping, bagging.  |
| 2. Operational conditions and risk management measures |  |
| <b>Operating Conditions</b>                            | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of use: 8 hours/day;<br>Emission days per year: <= 360 days per year;   |
| <b>Risk management measures</b>                        | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Goggles - Chemical resistant;<br>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);<br>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.;<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b>                       | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:  |
| 3. Prediction of exposure                              |  |
| <b>Prediction of exposure</b>                          | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.   |

| 1. Title                        |   |
|---------------------------------|---|
| <b>Substance identification</b> | toluene;<br>EC No. 203-625-9;<br>CAS Nbr 108-88-3;  |
| <b>Exposure Scenario Name</b>   | Industrial Use of Coatings  |
| <b>Lifecycle Stage</b>          | Use at industrial sites   |
| <b>Contributing activities</b>  | PROC 03 -Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition<br>PROC 07 -Industrial spraying<br>PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities<br>PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities<br>PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |

|   |  |
|---|--|
|   | PROC 10 -Roller application or brushing<br>ERC 04 -Use of non-reactive processing aid at industrial site (no inclusion into or onto article)   |
| <b>Processes, tasks and activities covered</b>                | Application of product with a roller or brush. Manual application of product. Spraying of substances/mixtures. Transfers with dedicated controls, including loading, filling, dumping, bagging. Transfers without dedicated controls, including loading, filling, dumping, bagging.  |
| <b>2. Operational conditions and risk management measures</b> |  |
| <b>Operating Conditions</b>                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Assumes use at not more than 20°C above ambient temperature;<br>Duration of exposure per day at workplace [for one worker]: 8 hours/day;<br>Duration of use: 5 days/week;<br>Emission days per year: 300 days/year;  |
| <b>Risk management measures</b>                               | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour);<br><b>Environmental:</b><br>Air abatement;<br>Industrial Sewage Treatment Plant;<br>;<br>The following task-specific risk management measures apply in addition to those listed above:<br><b>Task: Spraying;</b><br><b>Human Health;</b><br>Ventilated Process Enclosures;<br>Air-purifying Full-Face (with gas/vapour cartridge, that can be combined with a particulate filter); |
| <b>Waste management measures</b>                              | Do not apply industrial sludge to natural soils;   |
| <b>3. Prediction of exposure</b>                              |  |
| <b>Prediction of exposure</b>                                 | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.   |

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