

Issue date 20-10-2020 (DD-MMM-YYYY)

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

### 1.1. Product Identifier

**Product name** INK BOTTLE,LM,1000ML

**Product code** T49V6

**Pure substance/mixture** mixture

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

**Recommended Use** Ink jet ink (UV curing)

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

**Company Name**

Supplier in Australia:

EPSON Australia Pty Limited

Level1, 3 Talavera Road Macquarie Park NSW 2113, Australia

(02) 8899 3666 [www.epson.com.au](http://www.epson.com.au)

Supplier in New Zealand:

EPSON New Zealand Pty Limited

7-9 Fanshawe Street, Auckland 1010, New Zealand

(09) 366 6855 [www.epson.co.nz](http://www.epson.co.nz)

**Importer / Supplier**

-

For further information, please contact

**Contact Point**

-

### 1.4. Emergency telephone number

**Emergency Telephone Number** Australia (02) 8899 3666 (Mon-Fri, 9AM-5PM, AEST)  
New Zealand (09) 366 6855 (Mon-Fri, 9AM-5PM, NZST)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

|  |                      |
|--|----------------------|
| Acute toxicity - Oral                              | Category 4 - (H302)  |
| skin corrosion/irritation                          | Category 2 - (H315)  |
| Serious eye damage/eye irritation                  | Category 1 - (H318)  |
| Skin sensitization                                 | Category 1A - (H317) |
| Reproductive toxicity                              | Category 2 - (H361)  |
| Specific target organ toxicity (repeated exposure) | Category 1 - (H372)  |
| Acute aquatic toxicity                             | Category 1 - (H400)  |
| Chronic aquatic toxicity                           | Category 2 - (H411)  |

**Classification according to 67/548/EEC**

Full text of R-phrases: see section 16

**Hazard symbols**

T - Toxic

N - Dangerous for the environment

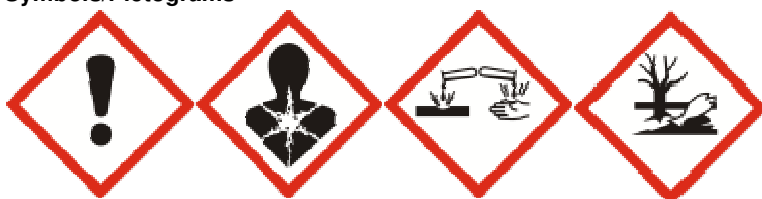
**R-code(s)**

Repr. cat. 3;R62 - T;R48/23 - Xn;R48/22 - Xn;R21/22 - Xi;R41 - Xi;R38 - R43 - N;R51/53

**2.2. Label Elements**

**Product Identifier**

**Symbols/Pictograms**



**Signal Word**

DANGER

**hazard statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H372 - Causes damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

H361 - Suspected of damaging fertility or the unborn child

Contains 2-Propenoic acid, phenylmethyl ester

2H-Azepin-2-one, 1-ethenylhexahydro-

Morpholine, 4-(1-oxo-2-propenyl)-

2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide

2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.'-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-

1,6-Hexanediol diacrylate

2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-

4-Methoxyphenol

EUH208 - May produce an allergic reaction

**precautionary statements**

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/container in accordance with applicable regulations

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P272 - Contaminated work clothing should not be allowed out of the workplace

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

P363 - Wash contaminated clothing before reuse

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood  
P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P405 - Store locked up  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P314 - Get medical advice/attention if you feel unwell  
P273 - Avoid release to the environment  
P391 - Collect spillage  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

### 2.3. Other Hazards

No information available

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Ingredients contributing to the classification of the mixture, etc.

| Chemical name  | CAS No     | weight-% | Classification according to 67/548/EEC              | Classification according to Regulation (EC) No. 1272/2008 [CLP] ANNEX VI Table3.1 / Other   | Japan GHS Classification / Other  |
|--|------------|----------|---|---|---|
| 2-Propenoic acid, phenylmethyl ester   | 2495-35-4  | 40-50    | Xi; R36/38-43                                       | Skin Irrit. 2 (H315)<br>Eye Irrit. 2A (H319)<br>Skin Sens. 1 (H317)   | Skin Irrit. 2<br>Eye Irrit. 2A<br>Skin Sens. 1B   |
| Morpholine, 4-(1-oxo-2-propenyl)-  | 5117-12-4  | 10-20    | Xn; R22-48/22<br>Xi; R41<br>R43                     | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>STOT RE 2 (H373)   | -   |
| 2H-Azepin-2-one, 1-ethenylhexahydro-   | 2235-00-9  | 10-20    | Xn; R22<br>Xi; R36-43<br>T; R48/23                  | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1B (H317)<br>STOT RE 1 (H372)  | Acute Tox. Oral 4<br>Eye Irrit. 2<br>Skin Sens. 1B<br>STOT RE 1   |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide  | 75980-60-8 | 5-10     | Repr.Cat.3; R62                                     | Repr. 2 (H361f)<br>Repr. 2 (H361)   | -   |
| 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-   | 5888-33-5  | 5-10     | Xi; R36/37/38-43<br>N; R50-53                       | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1B (H317)<br>STOT SE 3 (H335)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | Skin Irrit. 2<br>Eye Irrit. 2<br>Skin Sens. 1B<br>STOT SE 3<br>Aquatic Acute 1<br>Aquatic Chronic 1           |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester  | 7328-17-8  | 1-5      | T; R24<br>Xn; R22<br>Xi; R36-38<br>R43<br>N; R51-53 | Acute Tox. 4 (H302)<br>Acute Tox. 3 (H311)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1A (H317)<br>Aquatic Chronic 2 (H411) | Acute Tox. Oral 4<br>Acute Tox. Der. 3<br>Skin Irrit. 2<br>Eye Irrit. 2<br>Skin Sens. 1A<br>Aquatic Chronic 2 |
| Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene-1,3-propanediyl)bis-, rp. with Oxirane,methyl, polymer with oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl] derivs. - quaternised, compound with Benzoic acid | -          | < 1      | N; R50  | Aquatic Acute 1 (H400)  | Aquatic Acute 1   |

|   |            |     |                           |  |  |
|---|------------|-----|---------------------------|--|--|
| 1,6-Hexanediol diacrylate   | 13048-33-4 | < 1 | Xi; R36/38<br>R43         | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | Aquatic Chronic 1<br>Aquatic Acute 1<br>Skin Sens. 1                   |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.,.alpha.-1,2,3-p<br>ropanetriyltris[.omega.-[(1-oxo-<br>2-propenyl)oxy]- | 52408-84-1 | < 1 | Xi; R36-43                | Eye Irrit. 2A (H319)<br>Skin Sens. 1 (H317)  | Eye Irrit. 2A<br>Skin Sens. 1  |
| 2,5-Cyclohexadien-1-one,<br>2,6-bis(1,1-dimethylethyl)-4-(ph<br>enylmethylene)-   | 7078-98-0  | < 1 | R43<br>R53                | Skin Sens. 1 (H317)<br>Aquatic Chronic 4 (H413)  | -  |
| 4-Methoxyphenol   | 150-76-5   | < 1 | Xn; R22<br>Xi; R36<br>R43 | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>Skin Irrit. 2 (H315)<br>Aquatic Acute 3 (H402)      | Skin Irrit. 2<br>Eye Irrit. 2A<br>Aquatic Acute 3<br>Acute Tox. Oral 4 |

**Full text of R-phrases: see section 16**

**Full text of H- and EUH-phrases: see section 16**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Immediate medical attention is required  
If symptoms persist, call a physician  
Do not breathe dust/fume/gas/mist/vapors/spray  
Do not get in eyes, on skin, or on clothing  
May produce an allergic reaction

#### Inhalation

Remove to fresh air  
Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation  
Seek immediate medical attention/advice  
If breathing is irregular or stopped, administer artificial respiration  
Move to fresh air in case of accidental inhalation of vapors  
If symptoms persist, call a physician  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
IF INHALED: Call a POISON CENTER or doctor if you feel unwell

#### Skin contact

Immediate medical attention is required  
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes  
Wash contaminated clothing before reuse  
Wash off immediately with soap and plenty of water  
If skin irritation persists, call a physician  
Get medical attention if irritation develops and persists

#### Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes  
Keep eye wide open while rinsing  
Call a physician immediately  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes  
If symptoms persist, call a physician  
If eye irritation persists: Get medical advice/attention

|   |  |
|---|--|
| <b>INGESTION</b>                          | <p>Do NOT induce vomiting<br/> Clean mouth with water and drink afterwards plenty of water<br/> Never give anything by mouth to an unconscious person<br/> Call a physician or poison control center immediately<br/> Call a physician<br/> Potential for aspiration if swallowed<br/> Get medical attention<br/> Clean mouth with water</p> |
| <b>Self-protection of the first aider</b> | <p>Use personal protection recommended in Section 8<br/> Avoid contact with skin, eyes or clothing</p>   |

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

**4.3. Indication of any immediate medical attention and special treatment needed**

|                           |  |
|---------------------------|--|
| <b>Note to physicians</b> | <p>May cause sensitization of susceptible persons<br/> Treat symptomatically</p> |
|---------------------------|--|

## SECTION 5: Fire fighting measures

**5.1. Extinguishing media**

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | <p>CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water<br/> Move containers from fire area if you can do it without risk<br/> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment<br/> Remove combustible materials from their surroundings immediately</p> |
| <b>Special Extinguishing Media</b>    | <p>Cool container with water spray</p>   |
| <b>Unsuitable extinguishing media</b> | <p>Do not use a solid water stream as it may scatter and spread fire</p>   |

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

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | <p>In the event of fire and/or explosion do not breathe fumes<br/> May cause sensitization by inhalation and skin contact<br/> Thermal decomposition can lead to release of irritating and toxic gases and vapors<br/> The product causes irritation of eyes, skin and mucous membranes</p> |
|---|---|

**5.3. Advice for firefighters**

|   |  |
|---|--|
| <b>Special protective equipment for fire-fighters</b> | <p>Wear self contained breathing apparatus for fire fighting if necessary<br/> Use personal protective equipment as required<br/> In the event of fire and/or explosion do not breathe fumes<br/> Special protective equipment for fire-fighters</p> |
| <b>Flammable properties</b>                           | <p>May re-ignite after fire is extinguished<br/> Flammable/combustible material</p>  |

## SECTION 6: Accidental release measures

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

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | <p>Use personal protective equipment as required<br/>         Keep people away from and upwind of spill/leak<br/>         Evacuate personnel to safe areas<br/>         Stay upwind<br/>         ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)<br/>         Avoid contact with skin, eyes and inhalation of vapors<br/>         In the case of vapor formation use a respirator with filter model<br/>         In case of fire: Stop leak if safe to do so<br/>         Do not touch damaged containers or spilled material unless wearing appropriate protective clothing<br/>         Ensure adequate ventilation, especially in confined areas<br/>         Take precautionary measures against static discharges</p> |
|-----------------------------|--|

|                          |                    |
|--------------------------|--------------------|
| <b>OTHER INFORMATION</b> | Ventilate the area |
|--------------------------|--------------------|

## **6.2. Environmental precautions**

|                                  |  |
|----------------------------------|--|
| <b>Environmental Precautions</b> | <p>Prevent further leakage or spillage if safe to do so<br/>         Prevent product from entering drains<br/>         Do not flush into surface water or sanitary sewer system<br/>         See Section 12 for additional Ecological Information<br/>         Dispose of contents/container to an approved waste disposal plant<br/>         Avoid release to the environment<br/>         Collect spillage</p> |
|----------------------------------|--|

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

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | <p>Prevent further leakage or spillage if safe to do so<br/>         Cover powder spill with plastic sheet or tarp to minimize spreading<br/>         Dike far ahead of liquid spill for later disposal</p>   |
| <b>Methods for cleaning up</b> | <p>Cover liquid spill with sand, earth or other non-combustible absorbent material<br/>         Cover powder spill with plastic sheet or tarp to minimize spreading<br/>         Sweep up and shovel into suitable containers for disposal<br/>         Soak up with inert absorbent material<br/>         Dam up<br/>         Pick up and transfer to properly labeled containers<br/>         Use only non-sparking tools</p> |

## **6.4. Reference to other sections**

# **SECTION 7: Handling and storage**

## **7.1. Precautions for safe handling**

|                                |  |
|--------------------------------|--|
| <b>Advice on safe handling</b> | <p>Avoid contact with skin, eyes or clothing<br/>         Wash contaminated clothing before reuse<br/>         Do not eat, drink or smoke when using this product<br/>         Use personal protection recommended in Section 8<br/>         Do not breathe dust/fume/gas/mist/vapors/spray<br/>         Use with local exhaust ventilation<br/>         Take precautionary measures against static discharges<br/>         Use only in well-ventilated areas<br/>         Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea<br/>         Wash hands thoroughly and gargle after handling</p> |
|--------------------------------|--|

Keep away from any Group 1 and Group 6 dangerous goods and high pressure gases.  
Burn or dispose of the wiping cloths used to clean up the product at once

**General hygiene considerations**

When using do not eat, drink or smoke  
Regular cleaning of equipment, work area and clothing is recommended  
Avoid contact with skin, eyes or clothing  
Wash hands thoroughly after handling  
Keep away from food, drink and animal feeding stuffs

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place  
Keep out of the reach of children  
Keep in properly labeled containers  
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)  
Use spark-proof tools and explosion-proof equipment  
Incompatible with oxidizing agents  
Store the materials in compliance with the the Fire Service Act regulations.  
The product shall be stored in the original containers/vessels  
Polymerization is caused by ultra violet rays or heat. Store in a cool, dark and well-ventilated place. Containers/vessels should be tightly closed

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

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

**8.1. Control parameters**

| Chemical name   | Australia           | New Zealand              | European Union | United Kingdom | France                   | Spain                    | Germany |
|-----------------|---------------------|--------------------------|----------------|----------------|--------------------------|--------------------------|---------|
| 4-Methoxyphenol | 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> | -              | -              | TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup> | -       |

| Chemical name   | Italy | Portugal                 | Netherlands | Finland | Denmark                  |
|-----------------|-------|--------------------------|-------------|---------|--------------------------|
| 4-Methoxyphenol | -     | TWA: 5 mg/m <sup>3</sup> | -           | -       | TWA: 5 mg/m <sup>3</sup> |

| Chemical name   | Austria  | Switzerland | Poland                   | Norway   | Ireland  |
|-----------------|--|-------------|--------------------------|--|--|
| 4-Methoxyphenol | STEL: 10 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup> | -           | TWA: 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup> |

**8.2. Exposure controls**

**Engineering controls**

Ensure adequate ventilation, especially in confined areas  
Showers  
Eyewash stations  
Ventilation systems

## Personal Protective Equipment

|  |   |
|--|---|
| <b>Eye/face Protection</b>                       | Tight sealing safety goggles<br>Face protection shield<br>Wear safety glasses with side shields (or goggles)  |
| <b>Hand protection</b>                           | Wear protective gloves  |
| <b>Skin and Body Protection</b>                  | Suitable protective clothing<br>Gloves made of plastic or rubber<br>Wear suitable protective clothing<br>Apron<br>Protective shoes or boots   |
| <b>Respiratory protection</b>                    | In case of insufficient ventilation, wear suitable respiratory equipment<br>Respirator cartridge should be exchanged at regular intervals or at proper time according to breakthrough time                                  |
| <b>Environmental exposure controls</b>           | Local authorities should be advised if significant spillages cannot be contained<br>Do not allow into any sewer, on the ground or into any body of water<br>Prevent product from entering drains                            |
| <b>Chemical Controls for Australian Printers</b> | <ul style="list-style-type: none"> <li>Minimise skin contact with inks and cleaning chemicals.</li> <li>Ensure that ventilation equipment is maintained and working effectively, to minimise airborne exposures.</li> </ul> |

## SECTION 9: Physical and chemical properties

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

|                                     |                          |   |                          |
|-------------------------------------|--------------------------|---|--------------------------|
| <b>Physical state</b>               | liquid                   | <b>ODR</b>                                    | characteristic odor      |
| <b>appearance</b>                   | No information available | <b>odor threshold</b>                         | No information available |
| <b>color</b>                        | colored                  |   |                          |
| <b>Property</b>                     | <b>Values</b>            | <b>Remarks • Flash point measuring method</b> |                          |
| <b>pH</b>                           | Not applicable           |   |                          |
| <b>Melting point/freezing point</b> | no data available        |   |                          |
| <b>Boiling point/boiling range</b>  | no data available        | No information available                      |                          |
| <b>Flash Point</b>                  | ≥ 94°C                   | Seta Closed Cup                               |                          |
| <b>Evaporation Rate</b>             | no data available        | No information available                      |                          |
| <b>Combustibility</b>               | no data available        |   |                          |
| <b>Flammability Limits in Air</b>   |                          |   |                          |
| <b>Upper flammability limits</b>    | no data available        |   |                          |
| <b>Lower Flammability Limit</b>     | no data available        |   |                          |
| <b>vapor pressure</b>               | no data available        | No information available                      |                          |
| <b>Vapor density</b>                | no data available        | No information available                      |                          |
| <b>Specific gravity</b>             | 1.00-1.10                |   |                          |
| <b>solubility(ies)</b>              |                          |   |                          |



|                            |                             |                          |
|----------------------------|-----------------------------|--------------------------|
| Water solubility           | Immiscible in water         |                          |
| Organic Solvent Solubility | soluble in organic solvents |                          |
| Partition coefficient      | no data available           | No information available |
| Autoignition temperature   | no data available           | No information available |
| decomposition temperature  | no data available           | No information available |
| Kinematic viscosity        | no data available           |                          |
| Explosive properties       | No information available    |                          |
| Oxidizing properties       | No information available    |                          |

## 9.2. Other information

|                 |                   |
|-----------------|-------------------|
| softening point | no data available |
| density         | no data available |

| Chemical name                        | Boiling point °C   | density               | Vapor pressure       | Vapor density | Flash Point       | Autoignition temperature |
|--------------------------------------|--------------------|-----------------------|----------------------|---------------|-------------------|--------------------------|
| 2-Propenoic acid, phenylmethyl ester | 228 °C 1013.25 hPa | 1.0573 g/cm3 at 20 °C | -                    | -             | -                 | -                        |
| 1,6-Hexanediol diacrylate            | -                  | -                     | 0.0005 mmHg at 21 °C | -             | 132 °C closed cup | -                        |
| 4-Methoxyphenol                      | 243 - 246 °C       | -                     | -                    | 4.3           | 132 °C open cup   | 421 °C                   |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|         |                   |
|---------|-------------------|
| Remarks | no data available |
|---------|-------------------|

### 10.2. Chemical stability

|           |  |
|-----------|--|
| stability | Stable under normal conditions<br>Polymerization can occur<br>Heating may cause an explosion |
|-----------|--|

#### Explosion data

**Sensitivity to Mechanical Impact** May be ignited by heat, sparks or flames

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

|                     |  |
|---------------------|--|
| Conditions to Avoid | Take precautionary measures against static discharges<br>Extremes of temperature and direct sunlight<br>Heat |
|---------------------|--|

### 10.5. Incompatible materials

|                        |   |
|------------------------|---|
| Incompatible Materials | Heat; Strong acids; OXIDIZERS; alkali; Light; peroxides; radical initiators |
|------------------------|---|

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** May emit toxic fumes under fire conditions

## SECTION 11: Toxicological information

Repeated or prolonged contact may cause allergic reactions in very susceptible persons  
May cause sensitization by skin contact  
May cause sensitization by inhalation and skin contact

### 11.1. Information on toxicological effects

#### Acute Toxicity

#### Product Information

Product does not present an acute toxicity hazard based on known or supplied information

**inhalation** Reference to other sections; 4  
**Eye Contact** Reference to other sections; 4  
**Skin contact** Reference to other sections; 4  
**INGESTION** Reference to other sections; 4

**Unknown acute toxicity** 2.0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 1,458.50  
**ATEmix (dermal)** 6,532.70

| Chemical name  | Oral LD50 | dermal LD50 | Inhalation LC50 | Classification according to 67/548/EEC | Classification according to Regulation (EC) No. 1272/2008 [CLP] ANNEX VI Table3.1 / Other   | Japan GHS Classification / Other  |
|--|-----------|-------------|-----------------|--|---|---|
| 2-Propenoic acid, phenylmethyl ester                                 | -         | -           | -               | Xi; R36/38-43                          | Skin Irrit. 2 (H315)<br>Eye Irrit. 2A (H319)<br>Skin Sens. 1B (H317)  | Skin Irrit. 2<br>Eye Irrit. 2A<br>Skin Sens. 1B   |
| Morpholine, 4-(1-oxo-2-propenyl)-                                    | -         | -           | -               | Xn; R22-48/22<br>Xi; R41<br>R43        | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>STOT RE 2 (H373)   | -   |
| 2H-Azepin-2-one, 1-ethenylhexahydro-                                 | -         | -           | -               | Xn; R22<br>Xi; R36-43<br>T; R48/23     | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1B (H317)<br>STOT RE 1 (H372)  | Acute Tox. Oral 4<br>Eye Irrit. 2<br>Skin Sens. 1B<br>STOT RE 1                                     |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide                      | -         | -           | -               | Repr.Cat.3; R62                        | Repr. 2 (H361f)<br>Repr. 2 (H361)   | -   |
| 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- | -         | -           | -               | Xi; R36/37/38-43<br>N; R50-53          | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1B (H317)<br>STOT SE 3 (H335)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | Skin Irrit. 2<br>Eye Irrit. 2<br>Skin Sens. 1B<br>STOT SE 3<br>Aquatic Acute 1<br>Aquatic Chronic 1 |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester                      | -         | -           | -               | T; R24<br>Xn; R22<br>Xi; R36-38        | Acute Tox. 4 (H302)<br>Acute Tox. 3   | Acute Tox. Oral 4<br>Acute Tox. Der. 3<br>Skin Irrit. 2   |

|  |                       |   |   |                           |   |  |
|--|-----------------------|---|---|---------------------------|---|--|
|  |                       |   |   | R43<br>N; R51-53          | (H311)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1A<br>(H317)<br>Aquatic Chronic 2<br>(H411)                   | Eye Irrit. 2<br>Skin Sens. 1A<br>Aquatic Chronic 2                     |
| Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene-1,3-propanediyl)bis-, rp. with Oxirane,methyl, polymer with oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl] derivs. - quaternised, compound with Benzoic acid | -                     | - | - | N; R50                    | Aquatic Acute 1<br>(H400)   | Aquatic Acute 1  |
| 1,6-Hexanediol diacrylate  | -                     | - | - | Xi; R36/38<br>R43         | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1<br>(H317)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410) | Aquatic Chronic 1<br>Aquatic Acute 1<br>Skin Sens. 1                   |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.,.alpha.-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-  | -                     | - | - | Xi; R36-43                | Eye Irrit. 2A (H319)<br>Skin Sens. 1<br>(H317)  | Eye Irrit. 2A<br>Skin Sens. 1  |
| 2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-   | -                     | - | - | R43<br>R53                | Skin Sens. 1<br>(H317)<br>Aquatic Chronic 4<br>(H413)   | -  |
| 4-Methoxyphenol  | 1600 mg/kg<br>( Rat ) | - | - | Xn; R22<br>Xi; R36<br>R43 | Acute Tox. 4<br>(H302)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1<br>(H317)<br>Skin Irrit. 2 (H315)<br>Aquatic Acute 3<br>(H402)      | Skin Irrit. 2<br>Eye Irrit. 2A<br>Aquatic Acute 3<br>Acute Tox. Oral 4 |

**GHS/CLP Classification Note:**

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

**skin corrosion/irritation** No information available

**Serious eye damage/eye irritation** No information available

**sensitization** No information available

|                          |                          |
|--------------------------|--------------------------|
| Germ Cell Mutagenicity   | No information available |
| Carcinogenicity          | No information available |
| Reproductive Toxicity    | No information available |
| STOT - single exposure   | No information available |
| STOT - repeated exposure | No information available |
| Aspiration Hazard        | No information available |

## SECTION 12: Ecological information

### 12.1. Toxicity

47.9 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

### 12.2. Persistence and degradability

Persistence and degradability No information available

### 12.3. Bioaccumulative potential

Bioaccumulation No information available

| Chemical name   | Partition coefficient |
|-----------------|-----------------------|
| 4-Methoxyphenol | 1.34                  |

### 12.4. Mobility in soil

Mobility in soil No information available

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available

### 12.6. Other adverse effects

Other adverse effects No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from Residues/Unused Products Should not be released into the environment  
Disposal should be in accordance with applicable regional, national and local laws and regulations

|                               |   |
|-------------------------------|---|
| <b>Contaminated packaging</b> | Improper disposal or reuse of this container may be dangerous and illegal   |
| <b>OTHER INFORMATION</b>      | Waste codes should be assigned by the user based on the application for which the product was used<br>Store in a tightly sealed drum to prevent the spillage of the content |

## SECTION 14: Transport information

Containers/vessels must be leakage-free. Loading must be done to prevent containers from falling, dropping down and being damaged  
Take necessary steps to prevent collapse  
Use opaque containers/vessels for storage and transport

|                             |   |
|-----------------------------|---|
| <b>UN number</b>            | UN3082  |
| <b>Packing group</b>        | III   |
| <b>ERG Code</b>             | 171   |
| <b>Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s. |

### IMDG

|  |   |
|--|---|
| <b>14.1 UN number</b>  | UN3082  |
| <b>14.2 Proper shipping name</b>   | Environmentally hazardous substance, liquid, n.o.s. |
| <b>14.3 Hazard Class</b>   | 9   |
| <b>14.4 Packing group</b>  | III   |
| <b>Environmental hazard</b>  | Yes   |
| <b>14.6 Special Provisions</b>   | None  |
| <b>EmS-No</b>  | F-A, S-F  |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | No information available                            |

### RID

|                                  |   |
|----------------------------------|---|
| <b>14.1 UN number</b>            | UN3082  |
| <b>14.2 Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s. |
| <b>14.3 Hazard Class</b>         | 9   |
| <b>14.4 Packing group</b>        | III   |
| <b>14.5 Environmental hazard</b> | Yes   |
| <b>Classification code</b>       | M6  |
| <b>14.6 Special Provisions</b>   | None  |

### ADR

|                                  |   |
|----------------------------------|---|
| <b>14.1 UN number</b>            | UN3082  |
| <b>14.2 Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s. |
| <b>14.3 Hazard Class</b>         | 9   |
| <b>Labels</b>                    | 9   |
| <b>14.4 Packing group</b>        | III   |
| <b>14.5 Environmental hazard</b> | Yes   |
| <b>14.6 Special Provisions</b>   | None  |
| <b>Classification code</b>       | M6  |
| <b>Tunnel restriction code</b>   | (E)   |

### ICAO (air)

|                                  |   |
|----------------------------------|---|
| <b>14.1 UN number</b>            | UN3082  |
| <b>14.2 Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s. |
| <b>14.3 Hazard Class</b>         | 9   |

|                                  |      |
|----------------------------------|------|
| <b>14.4 Packing group</b>        | III  |
| <b>14.5 Environmental hazard</b> | Yes  |
| <b>14.6 Special Provisions</b>   | None |

**IATA**

|                                  |   |
|----------------------------------|---|
| <b>14.1 UN number</b>            | UN3082  |
| <b>14.2 Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s. |
| <b>14.3 Hazard Class</b>         | 9   |
| <b>14.4 Packing group</b>        | III   |
| <b>14.5 Environmental hazard</b> | Yes   |
| <b>14.6 Special Provisions</b>   | None  |
| <b>ERG Code</b>                  | 9L  |

## SECTION 15: Regulatory information

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

#### National regulations

##### **Australia**

See section 8 for national exposure control parameters

##### **New Zealand**

• See section 8 for national exposure control parameters

**ERMA New Zealand HSNO approval code or group standard** Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 - HSR002670

| Chemical name  | CAS No     | HSNO Chemical Classification   |
|--|------------|--|
| 2-Propenoic acid, phenylmethyl ester   | 2495-35-4  | -  |
| Morpholine, 4-(1-oxo-2-propenyl)-  | 5117-12-4  | 6.3A, 6.4A (Approval number: HSR007147)  |
| 2H-Azepin-2-one, 1-ethenylhexahydro-   | 2235-00-9  | 6.1D dermal, 6.1D inhalation, 6.1D oral (Approval number: HSR006712)   |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide  | 75980-60-8 | -  |
| 2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-   | 5888-33-5  | -  |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester  | 7328-17-8  | 6.3A, 6.4A (Approval number: HSR007360)  |
| Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene-1,3-propanediyl)bis-, rp. with Oxirane,methyl, polymer with oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl] derivs. - quaternised, compound with Benzoic acid | -          | -  |
| 1,6-Hexanediol diacrylate  | 13048-33-4 | 6.3A, 6.4A, 6.5B contact (Approval number: HSR003631)  |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-  | 52408-84-1 | 6.1E inhalation, 6.3A, 6.4A (Approval number: HSR003630); 6.3A, 6.4A (>10% in a non hazardous diluent, Approval number: HSR005991) |
| 2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-   | 7078-98-0  | -  |
| 4-Methoxyphenol  | 150-76-5   | 6.1D oral, 6.3A, 6.4A, 6.5B contact, 9.1A crustacean, 9.1D fish, 9.3C (Approval number: HSR003017)                                 |

## SECTION 16: Other information

**Full text of R-phrases referred to under sections 2 and 3**

R22 - Harmful if swallowed  
R36 - Irritating to eyes  
R41 - Risk of serious damage to eyes  
R43 - May cause sensitization by skin contact  
R50 - Very toxic to aquatic organisms  
R62 - Possible risk of impaired fertility  
R36/37/38 - Irritating to eyes, respiratory system and skin  
R36/38 - Irritating to eyes and skin  
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed  
R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H361 - Suspected of damaging fertility or the unborn child  
H361f - Suspected of damaging fertility  
H372 - Causes damage to organs through prolonged or repeated exposure if inhaled  
H373 - May cause damage to organs through prolonged or repeated exposure if inhaled  
H400 - Very toxic to aquatic life  
H402 - Harmful to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects  
H413 - May cause long lasting harmful effects to aquatic life

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**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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**End of Safety Data Sheet**