



# U-POL ACID #8 ETCH PRIMER

## Safety Data Sheet

according to the Model Work Health and Safety Regulations

DRIVING SURFACE PERFECTION

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Version: 2.1

### SECTION 1: Identification : Product identifier and chemical identity

#### 1.1. Product identifier

Product form : Mixture  
Trade name : U-POL ACID #8 ETCH PRIMER  
Product code : ACID/1

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Primer

#### 1.4. Supplier's details

##### Supplier

U-POL AUSTRALIA PTY LIMITED  
Unit A, 16 - 20 Cassola Place  
Penrith, NSW 2750 - Australia  
T 02 4731 2655 - F 02 4731 2611  
[info@u-pol.co.nz](mailto:info@u-pol.co.nz) - [www.u-pol.com.au](http://www.u-pol.com.au)

##### Supplier

U-POL NEW ZEALAND LIMITED  
c/o Lindsay & Associates  
Unit H, 12 Amara Place, East Tamaki  
Manukau City 2013 - New Zealand  
T + 612 4731 2655 - F + 612 4731 2611  
[technicalsupport@u-pol.com](mailto:technicalsupport@u-pol.com) - [www.u-pol.com](http://www.u-pol.com)

#### 1.5. Emergency phone number

Emergency number : Australia (CHEMTREC): + (61) - 290372994 ; New Zealand (National Poisons Centre): 0800 764 766

### SECTION 2: Hazards identification

#### 2.1. Classification of the hazardous chemical

##### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 3 H226  
Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336  
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

#### 2.2. Label elements

Hazard pictograms (GHS AU) :



Signal word (GHS AU) :

Danger

Contains :

1-butanol (23 - 43 %); 1-methoxy-2-propanol (5 - 23 %); 2-methylpropan-1-ol; iso-butanol (< 5 %); 2-methoxypropanol (< 5 %); toluene (< 5 %)

Hazard statements (GHS AU) :

H226 - Flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.

Precautionary statements (GHS AU) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. No smoking.  
P261 - Avoid breathing fume, vapours, spray.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Unknown acute toxicity (GHS AU) :

5.16% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
10% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
25.66% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

#### 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/information on ingredients

| Name  | CAS-No.    | %             | Classification according to the model Work Health and Safety Regulations (WHS Regulations)  |
|---|------------|---------------|---|
| 1-butanol<br>( )  | 71-36-3    | 23 - 43       | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 5 (Dermal), H313<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336 |
| 1-methoxy-2-propanol<br>( )   | 107-98-2   | 5 - 23        | Flam. Liq. 3, H226<br>Acute Tox. 5 (Oral), H303<br>STOT SE 3, H336  |
| 2-methylpropan-1-ol; iso-butanol<br>( )                                   | 78-83-1    | < 5           | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336   |
| 2-methoxypropanol<br>( )  | 1589-47-5  | < 5           | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Repr. 1B, H360<br>STOT SE 3, H335  |
| bisphenol-A-(epichlorhydrin), epoxy resin<br>( )                          | 25068-38-6 | < 5           | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   |
| toluene<br>( )  | 108-88-3   | < 5           | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304   |
| Other substances (not contributing to the classification of this product) |            | 82.52 - 88.83 |   |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Call a poison center or a doctor if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.                                |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.             |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Call a poison center or a doctor if you feel unwell.  |

#### 4.2. Symptoms caused by exposure

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Symptoms/effects                    | : May cause drowsiness or dizziness. |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.  |
| Symptoms/effects after skin contact | : Irritation.                        |
| Symptoms/effects after eye contact  | : Serious damage to eyes.            |

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

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

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

|             |                                |
|-------------|--------------------------------|
| Fire hazard | : Flammable liquid and vapour. |
|-------------|--------------------------------|

#### 5.3. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Hazchemcode                    | : 3YE  |

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapours, fume. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Contain released product, pump into suitable containers. Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

### SECTION 7: Handling and storage, including how the chemical may be safely used

#### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapours, fume. Avoid contact with skin and eyes.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Storage temperature : < 25 °C  
Storage area : Store in a well-ventilated place.  
Special rules on packaging : Keep only in original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters - exposure standards

| 1-butanol (71-36-3) |                                     |   |
|---------------------|-------------------------------------|---|
| Australia           | Local name                          | n-Butyl alcohol (n-Butanol)   |
| Australia           | OEL - Ceilings (mg/m <sup>3</sup> ) | 152 mg/m <sup>3</sup>   |
| Australia           | OEL - Ceilings (ppm)                | 50 ppm  |
| Australia           | Remark (AU)                         | Sk - Absorption through the skin may be a significant source of exposure. |
| New Zealand         | Local name                          | n-Butyl alcohol   |
| New Zealand         | Remark (NZ)                         | skin (Skin absorption)  |
| New Zealand         | Regulatory reference                | Workplace Exposure Standards and Biological Exposure Indices, 9th Edition |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) |                          |   |
|--|--------------------------|---|
| Australia                                  | Local name               | Isobutyl alcohol (2-Methylpropan-1-ol; iso-Butanol)                       |
| Australia                                  | TWA (mg/m <sup>3</sup> ) | 152 mg/m <sup>3</sup>   |
| Australia                                  | TWA (ppm)                | 50 ppm  |
| New Zealand                                | Local name               | Isobutyl alcohol  |
| New Zealand                                | TWA (mg/m <sup>3</sup> ) | 152 mg/m <sup>3</sup>   |
| New Zealand                                | TWA (ppm)                | 50 ppm  |
| New Zealand                                | Regulatory reference     | Workplace Exposure Standards and Biological Exposure Indices, 9th Edition |

| toluene (108-88-3) |            |         |
|--------------------|------------|---------|
| Australia          | Local name | Toluene |

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| toluene (108-88-3) |                           |   |
|--------------------|---------------------------|---|
| Australia          | TWA (mg/m <sup>3</sup> )  | 191 mg/m <sup>3</sup>   |
| Australia          | TWA (ppm)                 | 50 ppm  |
| Australia          | STEL (mg/m <sup>3</sup> ) | 574 mg/m <sup>3</sup>   |
| Australia          | STEL (ppm)                | 150 ppm   |
| Australia          | Remark (AU)               | Sk - Absorption through the skin may be a significant source of exposure. |
| New Zealand        | Local name                | Toluene (Toluol)  |
| New Zealand        | TWA (mg/m <sup>3</sup> )  | 188 mg/m <sup>3</sup>   |
| New Zealand        | TWA (ppm)                 | 50 ppm  |
| New Zealand        | Remark (NZ)               | skin (Skin absorption)  |
| New Zealand        | Regulatory reference      | Workplace Exposure Standards and Biological Exposure Indices, 8th Edition |

| 1-methoxy-2-propanol (107-98-2) |                           |   |
|---------------------------------|---------------------------|---|
| Australia                       | Local name                | Propylene glycol monomethyl ether (1-Methoxypropan-2-ol)                  |
| Australia                       | TWA (mg/m <sup>3</sup> )  | 369 mg/m <sup>3</sup>   |
| Australia                       | TWA (ppm)                 | 100 ppm   |
| Australia                       | STEL (mg/m <sup>3</sup> ) | 553 mg/m <sup>3</sup>   |
| Australia                       | STEL (ppm)                | 150 ppm   |
| New Zealand                     | Local name                | Propylene glycol monomethyl ether   |
| New Zealand                     | TWA (mg/m <sup>3</sup> )  | 369 mg/m <sup>3</sup>   |
| New Zealand                     | TWA (ppm)                 | 100 ppm   |
| New Zealand                     | STEL (mg/m <sup>3</sup> ) | 553 mg/m <sup>3</sup>   |
| New Zealand                     | STEL (ppm)                | 150 ppm   |
| New Zealand                     | Regulatory reference      | Workplace Exposure Standards and Biological Exposure Indices, 9th Edition |

### Exposure limit values for the other components

#### 8.2. Monitoring

No additional information available

#### 8.3. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

#### 8.4. Personal protective equipment

Personal protective equipment : Gloves. Protective clothing. Safety glasses.

Materials for protective clothing : Impermeable clothing

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

### SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance :  
Liquid.

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|  |  |
|--|--|
| Colour                                     | : No data available  |
| Odour                                      | : No data available  |
| Odour threshold                            | : No data available  |
| pH   | : No data available  |
| Relative evaporation rate (butylacetate=1) | : No data available  |
| Melting point / Freezing point             | : Melting point : Not applicable                           |
| Boiling point                              | : > 35 °C  |
| Flash point                                | : 23 °C  |
| Auto-ignition temperature                  | : No data available  |
| Flammability (solid, gas)                  | : No data available  |
| Vapour pressure                            | : No data available  |
| Relative density                           | : No data available  |
| Density                                    | : Density : $\approx 1.03$ (1.01 - 1.05) g/cm <sup>3</sup> |
| Solubility                                 | : insoluble in water. soluble in most organic solvents.    |
| Log Pow                                    | : No data available  |
| Viscosity, dynamic                         | : $\approx$ cP   |
| Explosive properties                       | : No data available  |
| Explosive limits                           | : No data available  |
| Minimum ignition energy                    | : No data available  |
| VOC content - Regulatory                   | : No data available  |

### SECTION 10: Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | : Flammable liquid and vapour. Flammable liquid and vapour.  |
| Chemical stability                 | : Stable under normal conditions.  |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use.   |
| Conditions to avoid                | : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.      |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

### SECTION 11: Toxicological information

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

|   |   |
|---|---|
| ATE AU (oral)                                     | 1948.862 mg/kg bodyweight   |
| <b>1-butanol (71-36-3)</b>                        |   |
| LD50 oral rat                                     | 2292 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)                                      |
| LD50 dermal rabbit                                | 3430 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal)                             |
| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |   |
| LD50 oral rat                                     | > 2830 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value)  |
| LD50 dermal rabbit                                | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male, Experimental value)                                     |
| LC50 inhalation rat (Vapours - mg/l/4h)           | 24.6 mg/l/4h (Other, 4 h, Rat, Male/female, Experimental value, Inhalation (vapours))   |
| <b>toluene (108-88-3)</b>                         |   |
| LD50 oral rat                                     | 5580 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral (one dose)) |
| LD50 dermal rabbit                                | > 5000 mg/kg bodyweight (Other, 24 h, Rabbit, Male, Experimental value, Dermal)   |
| LC50 inhalation rat (Vapours - mg/l/4h)           | 25.7 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours))                            |
| <b>2-methoxypropanol (1589-47-5)</b>              |   |
| LD50 oral rat                                     | 5710 mg/kg (Rat, Oral)  |
| <b>1-methoxy-2-propanol (107-98-2)</b>            |   |
| LD50 oral rat                                     | 4016 mg/kg bodyweight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method, Rat, Male/female, Experimental value, Oral)   |
| LD50 dermal rat                                   | 13 g/kg   |

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| <b>bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)</b> |   |
|---|---|
| LD50 oral rat   | > 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat   | > 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal)                        |

|                                   |  |
|-----------------------------------|--|
| Unknown acute toxicity (GHS AU)   | : 5.16% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>10% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>25.66% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours)) |
| Skin corrosion/irritation         | : Causes skin irritation.  |
| Serious eye damage/irritation     | : Causes serious eye damage.   |
| Respiratory or skin sensitisation | : Not classified   |
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : Not classified   |
| Reproductive toxicity             | : Not classified   |
| STOT-single exposure              | : May cause drowsiness or dizziness. May cause respiratory irritation.   |
| STOT-repeated exposure            | : Not classified   |
| Aspiration hazard                 | : Not classified   |

## SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

### 12.1. Ecotoxicity

|                          |   |
|--------------------------|---|
| Ecology - general        | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity   | : Not classified  |
| Chronic aquatic toxicity | : Not classified  |

| <b>1-butanol (71-36-3)</b>    |   |
|-------------------------------|---|
| LC50 fish 1                   | 1376 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP)       |
| EC50 Daphnia 1                | 1328 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| NOEC chronic crustacea        | 4.1 mg/l  |
| BCF other aquatic organisms 1 | 3.16 (BCFWIN, Calculated value)   |
| Log Pow                       | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)   |
| Log Koc                       | 0.388 (log Koc, PCKOCWIN v1.66, Calculated value)   |

| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |  |
|---|--|
| LC50 fish 1                                       | 1430 mg/l (Other, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)   |
| EC50 Daphnia 1                                    | 1100 mg/l (ASTM, 48 h, Daphnia pulex, Static system, Fresh water, Experimental value, Nominal concentration)                                   |
| ErC50 (algae)                                     | 1799 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| Log Pow   | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)  |
| Log Koc   | 0.31 (log Koc, SRC PCKOCWIN v1.66, Calculated value)   |

| <b>toluene (108-88-3)</b> |   |
|---------------------------|---|
| LC50 fish 1               | 5.5 mg/l (96 h, Oncorhynchus kisutch, Flow-through system, Fresh water, Experimental value) |
| BCF fish 1                | 90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)                   |
| Log Pow                   | 2.73 (Experimental value, 20 °C)  |

| <b>2-methoxypropanol (1589-47-5)</b> |                         |
|--------------------------------------|-------------------------|
| Log Pow                              | -0.49 (Estimated value) |

| <b>1-methoxy-2-propanol (107-98-2)</b> |   |
|--|---|
| LC50 fish 1                            | >= 1000 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration) |
| ErC50 (algae)                          | > 1000 mg/l (Other, 168 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)  |
| BCF fish 1                             | 1 (Pimephales promelas)   |
| Log Pow                                | < 1 (Experimental value, Equivalent or similar to OECD 117, 20 °C)  |

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| <b>bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)</b> |   |
|---|---|
| LC50 fish 1   | 2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 Daphnia 1  | 1.1 - 2.8 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)             |
| ErC50 (algae)   | > 11 mg/l (EPA 660/3 - 75/009, 72 h, Scenedesmus sp., Static system, Fresh water, Experimental value)   |
| BCF other aquatic organisms 1                                 | 31 (Estimated value, Fresh weight)  |
| Log Pow   | 2.64 - 3.78 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)   |
| Log Koc   | 2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)   |

### 12.2. Persistence and degradability

| <b>1-butanol (71-36-3)</b>      |  |
|---------------------------------|--|
| Persistence and degradability   | Readily biodegradable in water.          |
| Biochemical oxygen demand (BOD) | 1.1 - 1.92 g O <sub>2</sub> /g substance |
| Chemical oxygen demand (COD)    | 2.46 g O <sub>2</sub> /g substance       |
| ThOD                            | 2.59 g O <sub>2</sub> /g substance       |
| BOD (% of ThOD)                 | 0.33 - 0.79                              |

| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |  |
|---|--|
| Persistence and degradability                     | Biodegradable in the soil. Readily biodegradable in water. |

| <b>toluene (108-88-3)</b>       |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 2.15 g O <sub>2</sub> /g substance                         |
| Chemical oxygen demand (COD)    | 2.52 g O <sub>2</sub> /g substance                         |
| ThOD                            | 3.13 g O <sub>2</sub> /g substance                         |
| BOD (% of ThOD)                 | 0.69   |

| <b>2-methoxypropanol (1589-47-5)</b> |   |
|--------------------------------------|---|
| Persistence and degradability        | Biodegradability in water: no data available. |

| <b>1-methoxy-2-propanol (107-98-2)</b> |  |
|--|--|
| Persistence and degradability          | Biodegradable in the soil. Readily biodegradable in water. |
| ThOD                                   | 1.95 g O <sub>2</sub> /g substance                         |

| <b>bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)</b> |                                     |
|---|-------------------------------------|
| Persistence and degradability                                 | Not readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| <b>1-butanol (71-36-3)</b>    |  |
|-------------------------------|--|
| BCF other aquatic organisms 1 | See section 12.1 on ecotoxicology                |
| Log Pow                       | See section 12.1 on ecotoxicology                |
| Log Koc                       | See section 12.1 on ecotoxicology                |
| Bioaccumulative potential     | Low potential for bioaccumulation (Log Kow < 4). |

| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |  |
|---|--|
| Log Pow   | See section 12.1 on ecotoxicology                |
| Log Koc   | See section 12.1 on ecotoxicology                |
| Bioaccumulative potential                         | Low potential for bioaccumulation (Log Kow < 4). |

| <b>toluene (108-88-3)</b> |  |
|---------------------------|--|
| BCF fish 1                | See section 12.1 on ecotoxicology              |
| Log Pow                   | See section 12.1 on ecotoxicology              |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| <b>2-methoxypropanol (1589-47-5)</b> |                                   |
|--------------------------------------|-----------------------------------|
| Log Pow                              | See section 12.1 on ecotoxicology |
| Bioaccumulative potential            | Not bioaccumulative.              |

| <b>1-methoxy-2-propanol (107-98-2)</b> |                                   |
|--|-----------------------------------|
| BCF fish 1                             | See section 12.1 on ecotoxicology |
| Log Pow                                | See section 12.1 on ecotoxicology |
| Bioaccumulative potential              | Not bioaccumulative.              |

| <b>bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)</b> |                                   |
|---|-----------------------------------|
| BCF other aquatic organisms 1                                 | See section 12.1 on ecotoxicology |

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| <b>bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)</b> |  |
|---|--|
| Log Pow   | See section 12.1 on ecotoxicology                |
| Log Koc   | See section 12.1 on ecotoxicology                |
| Bioaccumulative potential                                     | Low potential for bioaccumulation (Log Kow < 4). |

### 12.4. Mobility in soil

| <b>1-butanol (71-36-3)</b> |  |
|----------------------------|--|
| Surface tension            | 0.07 N/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)              |
| Log Pow                    | See section 12.1 on ecotoxicology  |
| Log Koc                    | See section 12.1 on ecotoxicology  |
| Ecology - soil             | Highly mobile in soil. May be harmful to plant growth, blooming and fruit formation. |

| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |   |
|---|---|
| Surface tension                                   | 0.0697 N/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Log Pow   | See section 12.1 on ecotoxicology   |
| Log Koc   | See section 12.1 on ecotoxicology   |
| Ecology - soil                                    | Highly mobile in soil.  |

| <b>toluene (108-88-3)</b> |                                       |
|---------------------------|---------------------------------------|
| Surface tension           | 27.73 N/m (25 °C)                     |
| Log Pow                   | See section 12.1 on ecotoxicology     |
| Ecology - soil            | Low potential for adsorption in soil. |

| <b>2-methoxypropanol (1589-47-5)</b> |                                   |
|--------------------------------------|-----------------------------------|
| Log Pow                              | See section 12.1 on ecotoxicology |

| <b>1-methoxy-2-propanol (107-98-2)</b> |   |
|--|---|
| Surface tension                        | 0.0707 N/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Log Pow                                | See section 12.1 on ecotoxicology   |
| Ecology - soil                         | Low potential for adsorption in soil.                                     |

| <b>bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)</b> |  |
|---|--|
| Surface tension   | 58.7 - 58.9 mN/m (20 °C, EU Method A.5: Surface tension) |
| Log Pow   | See section 12.1 on ecotoxicology                        |
| Log Koc   | See section 12.1 on ecotoxicology                        |
| Ecology - soil  | Low potential for adsorption in soil.                    |

### 12.5. Other adverse effects

|                       |                                       |
|-----------------------|---------------------------------------|
| Ozone                 | : Not classified                      |
| Other adverse effects | : No additional information available |

| <b>U-POL ACID #8 ETCH PRIMER</b> |       |
|----------------------------------|-------|
| Fluorinated greenhouse gases     | False |

| <b>1-butanol (71-36-3)</b>   |       |
|------------------------------|-------|
| Fluorinated greenhouse gases | False |

| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |       |
|---|-------|
| Fluorinated greenhouse gases                      | False |

| <b>toluene (108-88-3)</b>    |       |
|------------------------------|-------|
| Fluorinated greenhouse gases | False |

| <b>2-methoxypropanol (1589-47-5)</b> |       |
|--------------------------------------|-------|
| Fluorinated greenhouse gases         | False |

| <b>1-methoxy-2-propanol (107-98-2)</b> |       |
|--|-------|
| Fluorinated greenhouse gases           | False |

| <b>bisphenol-A-(epichlorhydrin), epoxy resin (25068-38-6)</b> |       |
|---|-------|
| Fluorinated greenhouse gases                                  | False |

## SECTION 13: Disposal considerations

|                              |   |
|------------------------------|---|
| Regional legislation (waste) | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods      | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information       | : Flammable vapours may accumulate in the container.  |

## SECTION 14: Transport information

### 14.1. UN number

|              |        |
|--------------|--------|
| UN-No. (ADG) | : 1263 |
|--------------|--------|



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UN-No. (IMDG) : 1263  
UN-No. (IATA) : 1263

### 14.2. Proper Shipping Name - Addition

Proper Shipping Name (ADG) : PAINT  
Proper Shipping Name (IMDG) : PAINT  
Proper Shipping Name (IATA) : Paint

### 14.3. Transport hazard class(es)

#### ADG

Transport hazard class(es) (ADG) : 3  
Danger labels (ADG) : 3



#### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3



#### IATA

Transport hazard class(es) (IATA) : 3  
Hazard labels (IATA) : 3



### 14.4. Packing group

Packing group (ADG) : III  
Packing group (IMDG) : II  
Packing group (IATA) : II

### 14.5. Environmental hazards

Marine pollutant : No

### 14.6. Special precautions for user

Specific storage requirement : No data available  
Shock sensitivity : No data available

### 14.7. Additional information

Other information : No supplementary information available

### Transport by road and rail

UN-No. (ADG) : 1263  
Special provision (ADG) : 163, 223  
Limited quantities (ADG) : 5l  
Packing instructions (ADG) : P001, IBC03, LP01  
Special packing provisions (ADG) : PP1  
Portable tank and bulk container instructions (ADG) : T2  
Portable tank and bulk container special provisions (ADG) : TP1, TP29

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### Transport by sea

|                                    |   |
|------------------------------------|---|
| UN-No. (IMDG)                      | : 1263  |
| Special provisions (IMDG)          | : 163, 367  |
| Limited quantities (IMDG)          | : 5 L   |
| Excepted quantities (IMDG)         | : E2  |
| Packing instructions (IMDG)        | : P001  |
| Special packing provisions (IMDG)  | : PP1   |
| IBC packing instructions (IMDG)    | : IBC02   |
| Tank instructions (IMDG)           | : T4  |
| Tank special provisions (IMDG)     | : TP1, TP8, TP28  |
| EmS-No. (Fire)                     | : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS     |
| EmS-No. (Spillage)                 | : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER |
| Stowage category (IMDG)            | : B   |
| Properties and observations (IMDG) | : Miscibility with water depends upon the composition.                |

### Air transport

|  |                 |
|--|-----------------|
| UN-No. (IATA)                                | : 1263          |
| PCA Excepted quantities (IATA)               | : E2            |
| PCA Limited quantities (IATA)                | : Y341          |
| PCA limited quantity max net quantity (IATA) | : 1L            |
| PCA packing instructions (IATA)              | : 353           |
| PCA max net quantity (IATA)                  | : 5L            |
| CAO packing instructions (IATA)              | : 364           |
| CAO max net quantity (IATA)                  | : 60L           |
| Special provisions (IATA)                    | : A3, A72, A192 |
| ERG code (IATA)                              | : 3L            |

### 14.8. Hazchem or Emergency Action Code

|             |       |
|-------------|-------|
| Hazchemcode | : 3YE |
|-------------|-------|

## SECTION 15: Regulatory information

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

No additional information available

#### Hazardous Substances and New Organisms Act

|                      |                                   |
|----------------------|-----------------------------------|
| HSNO Approval Number | : HSR002662                       |
| Group standard       | : Surface coatings and colourants |

#### ethylbenzene (100-41-4)

##### Hazardous Substances and New Organisms Act

|                      |             |
|----------------------|-------------|
| HSNO Approval Number | : HSR001151 |
|----------------------|-------------|

#### xylene (1330-20-7)

##### Hazardous Substances and New Organisms Act

|                      |             |
|----------------------|-------------|
| HSNO Approval Number | : HSR000983 |
|----------------------|-------------|

### 15.2. International agreements

No additional information available

## SECTION 16: Any other relevant information

|               |              |
|---------------|--------------|
| Revision date | : 03/05/2019 |
|---------------|--------------|

Classification:

|                     |      |
|---------------------|------|
| Flam. Liq. 3        | H226 |
| Acute Tox. 4 (Oral) | H302 |
| Skin Irrit. 2       | H315 |
| Eye Dam. 1          | H318 |
| STOT SE 3           | H336 |
| STOT SE 3           | H335 |

Full text of H-statements:

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|                       |  |
|-----------------------|--|
| Acute Tox. 4 (Oral)   | Acute toxicity (oral), Category 4  |
| Acute Tox. 5 (Dermal) | Acute toxicity (dermal), Category 5  |
| Acute Tox. 5 (Oral)   | Acute toxicity (oral), Category 5  |
| Aquatic Chronic 2     | Hazardous to the aquatic environment — Chronic Hazard, Category 2                          |
| Asp. Tox. 1           | Aspiration hazard, Category 1  |
| Eye Dam. 1            | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2A         | Serious eye damage/eye irritation, Category 2A   |
| Flam. Liq. 2          | Flammable liquids, Category 2  |
| Flam. Liq. 3          | Flammable liquids, Category 3  |
| Repr. 1B              | Reproductive toxicity, Category 1B   |
| Repr. 2               | Reproductive toxicity, Category 2  |
| Skin Irrit. 2         | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1          | Skin sensitisation, Category 1   |
| STOT RE 2             | Specific target organ toxicity — Repeated exposure, Category 2                             |
| STOT SE 3             | Specific target organ toxicity — Single exposure, Category 3, Narcosis                     |
| STOT SE 3             | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225                  | Highly flammable liquid and vapour.  |
| H226                  | Flammable liquid and vapour.   |
| H302                  | Harmful if swallowed.  |
| H303                  | May be harmful if swallowed  |
| H304                  | May be fatal if swallowed and enters airways.  |
| H313                  | May be harmful 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.  |
| H336                  | May cause drowsiness or dizziness.   |
| H360                  | May damage fertility or the unborn child.  |
| H361                  | Suspected of damaging fertility or the unborn child.                                       |
| H373                  | May cause damage to organs through prolonged or repeated exposure.                         |
| H411                  | Toxic to aquatic life with long lasting effects.   |

SDS Australia U-POL

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