

### SECTION 1: Product identifier

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : POWERCAN ETCH PRIMER AEROSOL  
Product code : PCEP/AL

#### 1.2. Other means of identification

No additional information available

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

Recommended use : Coating

#### 1.4. Details of manufacturer or importer

##### Supplier

U-POL Australia Pty Limited Ltd  
55 Leland Street  
Penrith NSW 2750  
Australia  
T 02 4731 2655 - F 02 4731 2611  
[info@u-pol.com.au](mailto:info@u-pol.com.au) - [www.u-pol.com](http://www.u-pol.com)

##### Supplier

U-POL New Zealand Limited Ltd  
c/o Lindsay & Associates Unit H, 12 Amara Place, East Tamaki  
Manukau City Auckland 2013  
New Zealand  
T + 612 4731 2655 / 027 630 3691 - F + 612 4731 2611  
[info@u-pol.co.nz](mailto:info@u-pol.co.nz) - [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: Hazard identification

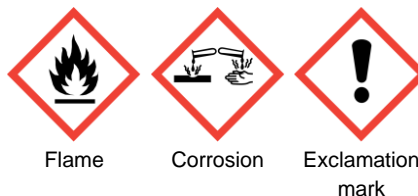
#### 2.1. Classification of the hazardous chemical

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

|  |           |
|--|-----------|
| Aerosol, Category 1  | H222;H229 |
| Serious eye damage/eye irritation, Category 1                          | H318      |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336      |

#### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Signal word (GHS AU) : Danger

Contains : methyl acetate (10 – 30 %); acetone (10 – 30 %); 1-methoxy-2-propanol (< 10 %); 1-butanol (< 10 %); 2-methylpropan-1-ol; iso-butanol (< 10 %)

Hazard statements (GHS AU) : H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated  
H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS AU) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Do not pierce or burn, even after use.  
P261 - Avoid breathing fume, spray, vapours.  
P264 - Wash hands thoroughly after handling.

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|                                       |  |
|---------------------------------------|--|
| Additional hazard statements (GHS AU) | : P271 - Use only outdoors or in a well-ventilated area.   |
| Unknown acute toxicity (GHS AU)       | : P280 - Wear eye protection, face protection, protective gloves.<br>P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.<br>P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
|                                       | : AUH066 - Repeated exposure may cause skin dryness or cracking.   |
|                                       | : 2.42% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  |
|                                       | : 4.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  |
|                                       | : 19.64% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))   |

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition and information on ingredients

| Name  | CAS-No. | %             | Classification according to the model Work Health and Safety Regulations (WHS Regulations)  |
|---|---------|---------------|---|
| methyl acetate  | 79-20-9 | 10 – 30       | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336  |
| acetone   | 67-64-1 | 10 – 30       | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336  |
| 1-butanol   | 71-36-3 | < 10          | 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, H336<br>STOT SE 3, H335 |
| 2-methylpropan-1-ol; iso-butanol  | 78-83-1 | < 10          | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H336<br>STOT SE 3, H335   |
| Other substances (not contributing to the classification of this product) | -       | 98.84 – 98.93 | -   |

## SECTION 4: First aid measures

### 4.1. Description of necessary 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.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off 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    | : 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 skin contact | : Irritation.                        |
| Symptoms/effects after eye contact  | : Serious damage to eyes.            |

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### 4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

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

### 5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol.  
Explosion hazard : Pressurised container: May burst if heated.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 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.

## 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 fume, spray, vapours. 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 materials for containment and cleaning up

For containment : Contain released product. Collect spillage.  
Methods for cleaning up : Mechanically recover the product.

## SECTION 7: Handling and storage

### 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. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing fume, spray, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.  
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

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
Storage temperature : < 25 °C  
Special rules on packaging : Keep only in original container.

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### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters - exposure standards

| <b>acetone (67-64-1)</b>                          |  |
|---|--|
| <b>Australia - Occupational Exposure Limits</b>   |  |
| Local name  | Acetone  |
| OES TWA [1]                                       | 1185 mg/m <sup>3</sup>   |
| OES TWA [2]                                       | 500 ppm  |
| OES STEL  | 2375 mg/m <sup>3</sup>   |
| OES STEL [ppm]                                    | 1000 ppm   |
| Regulatory reference                              | Workplace exposure standards for airborne contaminants (2019)              |
| <b>New Zealand - Occupational Exposure Limits</b> |  |
| Local name  | Acetone  |
| WES-TWA (OEL TWA) [1]                             | 1185 mg/m <sup>3</sup>   |
| WES-TWA (OEL TWA) [2]                             | 500 ppm  |
| WES-STEL (OEL STEL)                               | 2375 mg/m <sup>3</sup>   |
| WES-STEL (OEL STEL) [ppm]                         | 1000 ppm   |
| Regulatory reference                              | Workplace Exposure Standards and Biological Exposure Indices, 12th Edition |
| <b>New Zealand - Biological Exposure Indices</b>  |  |
| Local name  | Acetone  |
| BEI   | 50 mg/l Parameter: Acetone - Medium: Urine - Sampling time: End of shift   |
| Regulatory reference                              | Workplace Exposure Standards and Biological Exposure Indices, 12th Edition |
| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |  |
| <b>Australia - Occupational Exposure Limits</b>   |  |
| Local name  | Isobutyl alcohol (2-Methylpropan-1-ol; iso-Butanol)                        |
| OES TWA [1]                                       | 152 mg/m <sup>3</sup>  |
| OES TWA [2]                                       | 50 ppm   |
| Regulatory reference                              | Workplace exposure standards for airborne contaminants (2019)              |
| <b>New Zealand - Occupational Exposure Limits</b> |  |
| Local name  | Isobutyl alcohol   |
| WES-TWA (OEL TWA) [1]                             | 152 mg/m <sup>3</sup>  |
| WES-TWA (OEL TWA) [2]                             | 50 ppm   |
| Regulatory reference                              | Workplace Exposure Standards and Biological Exposure Indices, 12th Edition |
| <b>1-butanol (71-36-3)</b>                        |  |
| <b>Australia - Occupational Exposure Limits</b>   |  |
| Local name  | n-Butyl alcohol (n-Butanol)  |
| OES C   | 152 mg/m <sup>3</sup>  |
| OES C [ppm]                                       | 50 ppm   |
| Remark (AU)                                       | Sk - Absorption through the skin may be a significant source of exposure.  |
| Regulatory reference                              | Workplace exposure standards for airborne contaminants (2019)              |

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| 1-butanol (71-36-3)                               |  |
|---|--|
| <b>New Zealand - Occupational Exposure Limits</b> |  |
| Local name  | n-Butyl alcohol  |
| WES-C (OEL C)                                     | 150 mg/m <sup>3</sup>  |
| WES-C (OEL C) [ppm]                               | 50 ppm   |
| Remark (NZ)                                       | skin (Skin absorption)   |
| Regulatory reference                              | Workplace Exposure Standards and Biological Exposure Indices, 12th Edition |

| methyl acetate (79-20-9)                        |   |
|---|---|
| <b>Australia - Occupational Exposure Limits</b> |   |
| Local name                                      | Methyl acetate  |
| OES TWA [1]                                     | 606 mg/m <sup>3</sup>   |
| OES TWA [2]                                     | 200 ppm   |
| OES STEL  | 757 mg/m <sup>3</sup>   |
| OES STEL [ppm]                                  | 250 ppm   |
| Regulatory reference                            | Workplace exposure standards for airborne contaminants (2019) |

| New Zealand - Occupational Exposure Limits |  |
|--|--|
| Local name                                 | Methyl acetate   |
| WES-TWA (OEL TWA) [1]                      | 606 mg/m <sup>3</sup>  |
| WES-TWA (OEL TWA) [2]                      | 200 ppm  |
| WES-STEEL (OEL STEL)                       | 757 mg/m <sup>3</sup>  |
| WES-STEEL (OEL STEL) [ppm]                 | 250 ppm  |
| Regulatory reference                       | Workplace Exposure Standards and Biological Exposure Indices, 12th Edition |

### 8.2. Biological Monitoring

No additional information available

### 8.3. Engineering controls

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

### 8.4. Individual protection measures, such as personal protective equipment (PPE)

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 : Aerosol.  
Colour : Grey

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|   |   |
|---|---|
| Odour   | : characteristic  |
| Odour threshold                                 | : No data available                                     |
| pH  | : No data available                                     |
| Relative evaporation rate (butylacetate=1)      | : No data available                                     |
| Melting point / Freezing point                  | : No data available                                     |
| Boiling point                                   | : 56 °C   |
| Flash point                                     | : No data available                                     |
| Auto-ignition temperature                       | : No data available                                     |
| Flammability                                    | : No data available                                     |
| Vapour pressure                                 | : No data available                                     |
| Relative density                                | : No data available                                     |
| Density   | : Density: 0.799 g/cm <sup>3</sup>                      |
| Solubility                                      | : insoluble in water. soluble in most organic solvents. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                                     |
| Explosive properties                            | : Pressurised container: May burst if heated.           |
| Explosive limits                                | : No data available                                     |
| Minimum ignition energy                         | : No data available                                     |
| VOC content                                     | : 734 g/l   |
| VOC content - Regulatory                        | : No data available                                     |
| Gas group                                       | : Press. Gas (Liq.)                                     |
| Percent Solids                                  | : 12.19 wt%   |

### SECTION 10: Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | : Extremely flammable aerosol. Pressurised container: May burst if heated.                             |
| 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.      |
| Incompatible materials             | : No additional information available  |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

### SECTION 11: Toxicological information

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| <b>acetone (67-64-1)</b>                          |  |
|---|--|
| LD50 oral rat                                     | 5800 mg/kg bodyweight Animal: rat, Animal sex: female  |
| LD50 dermal rabbit                                | > 15800 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))                                 |
| LC50 Inhalation - Rat                             | 76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4   |
| ATE AU (oral)                                     | 5800 mg/kg bodyweight  |
| <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, Oral, 14 day(s))              |
| LD50 dermal rabbit                                | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat                             | > 18.18 mg/l air (6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))                      |
| LC50 Inhalation - Rat (Vapours)                   | 24.6 mg/l/4h (Other, 4 h, Rat, Male/female, Experimental value, Inhalation (vapours))                                |
| ATE AU (vapours)                                  | 24.6 mg/l/4h   |

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| <b>1-butanol (71-36-3)</b>                        |  |
|---|--|
| LD50 oral rat                                     | ≈ 2292 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |
| LD50 dermal rabbit                                | ≈ 3430 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |
| LC50 Inhalation - Rat                             | > 17.76 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))   |
| ATE AU (oral)                                     | 500 mg/kg bodyweight   |
| ATE AU (dermal)                                   | 2500 mg/kg bodyweight  |
| <b>methyl acetate (79-20-9)</b>                   |  |
| LD50 oral rat                                     | 6482 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |
| LD50 dermal rat                                   | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |
| LC50 Inhalation - Rat                             | 49 mg/l  |
| ATE AU (oral)                                     | 6482 mg/kg bodyweight  |
| ATE AU (dust,mist)                                | 49 mg/l/4h   |
| Unknown acute toxicity (GHS AU)                   | : 2.42% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>4.75% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>19.64% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours)) |
| Skin corrosion/irritation                         | : Not classified   |
| 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.   |
| <b>acetone (67-64-1)</b>                          |  |
| STOT-single exposure                              | May cause drowsiness or dizziness.   |
| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |  |
| STOT-single exposure                              | May cause drowsiness or dizziness. May cause respiratory irritation.   |
| <b>1-butanol (71-36-3)</b>                        |  |
| STOT-single exposure                              | May cause drowsiness or dizziness. May cause respiratory irritation.   |
| <b>methyl acetate (79-20-9)</b>                   |  |
| STOT-single exposure                              | May cause drowsiness or dizziness.   |
| STOT-repeated exposure                            | : Not classified   |
| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b> |  |
| NOAEL (oral, rat, 90 days)                        | > 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)   |
| <b>1-butanol (71-36-3)</b>                        |  |
| LOAEL (oral, rat, 90 days)                        | 500 mg/kg bodyweight Animal: rat   |
| NOAEL (oral, rat, 90 days)                        | 125 mg/kg bodyweight Animal: rat   |
| <b>methyl acetate (79-20-9)</b>                   |  |
| LOAEC (inhalation, rat, vapour, 90 days)          | 2000 mg/l  |

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| methyl acetate (79-20-9)                 |                        |
|--|------------------------|
| NOAEC (inhalation, rat, vapour, 90 days) | 1057 mg/m <sup>3</sup> |
| Aspiration hazard                        | : Not classified       |
| POWERCAN ETCH PRIMER AEROSOL             |                        |
| Vaporizer                                | Aerosol                |

## 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.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| acetone (67-64-1)  |   |
|--|---|
| LC50 - Fish [1]  | 6210 – 8120 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Measured concentration) |
| LOEC (chronic)   | > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC (chronic)   | ≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| BCF - Fish [1]   | 0.69 (Pisces, Literature study)   |
| Partition coefficient n-octanol/water (Log Pow)            | -0.23 (Test data)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value)  |
| 2-methylpropan-1-ol; iso-butanol (78-83-1)                 |   |
| LC50 - Fish [1]  | 1430 mg/l Test organisms (species): Pimephales promelas   |
| EC50 - Crustacea [1]                                       | 1100 mg/l Test organisms (species): Daphnia pulex   |
| NOEC (chronic)   | 20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| Partition coefficient n-octanol/water (Log Pow)            | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.47 (log Koc, SRC PCKOCWIN v2.0, Calculated value)   |
| 1-butanol (71-36-3)  |   |
| LC50 - Fish [1]  | 1376 mg/l Test organisms (species): Pimephales promelas   |
| EC50 - Crustacea [1]                                       | 1328 mg/l Test organisms (species): Daphnia magna   |
| ErC50 algae  | 225 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)                 |
| NOEC (chronic)   | 4.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC chronic crustacea                                     | 4.1 mg/l  |
| Partition coefficient n-octanol/water (Log Pow)            | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.54 (log Koc, SRC PCKOCWIN v2.0, Calculated value)   |



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| <b>methyl acetate (79-20-9)</b>                            |  |
|--|--|
| LC50 - Fish [1]  | 250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| EC50 - Crustacea [1]                                       | 1026.7 mg/l Test organisms (species): Daphnia magna  |
| BCF - Fish [1]   | < 1 (Pisces, Literature study)   |
| Partition coefficient n-octanol/water (Log Pow)            | 0.18 (Experimental value, 20 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |

### 12.2. Persistence and degradability

| <b>acetone (67-64-1)</b>        |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.43 g O <sub>2</sub> /g substance   |
| Chemical oxygen demand (COD)    | 1.92 g O <sub>2</sub> /g substance   |
| ThOD                            | 2.2 g O <sub>2</sub> /g substance  |

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

| <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       |

| <b>methyl acetate (79-20-9)</b> |                                 |
|---------------------------------|---------------------------------|
| Persistence and degradability   | Readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| <b>acetone (67-64-1)</b>                                   |  |
|--|--|
| BCF - Fish [1]   | 0.69 (Pisces, Literature study)                              |
| Partition coefficient n-octanol/water (Log Pow)            | -0.23 (Test data)  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (BCF < 500).               |

| <b>2-methylpropan-1-ol; iso-butanol (78-83-1)</b>          |   |
|--|---|
| Partition coefficient n-octanol/water (Log Pow)            | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.47 (log Koc, SRC PCKOCWIN v2.0, Calculated value)   |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (Log Kow < 4).  |

| <b>1-butanol (71-36-3)</b>                      |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |

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| 1-butanol (71-36-3)  |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.54 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (Log Kow < 4).    |

| methyl acetate (79-20-9)                                   |  |
|--|--|
| BCF - Fish [1]   | < 1 (Pisces, Literature study)   |
| Partition coefficient n-octanol/water (Log Pow)            | 0.18 (Experimental value, 20 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (Log Kow < 4).   |

### 12.4. Mobility in soil

| acetone (67-64-1)  |  |
|--|--|
| Surface tension  | 23.3 mN/m (20 °C)  |
| Partition coefficient n-octanol/water (Log Pow)            | -0.23 (Test data)  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | See section 12.1 on ecotoxicology 0.374 – 0.988 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil   | Highly mobile in soil.   |

| 2-methylpropan-1-ol; iso-butanol (78-83-1)                 |   |
|--|---|
| Surface tension  | 69.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)                      |
| Partition coefficient n-octanol/water (Log Pow)            | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | See section 12.1 on ecotoxicology 0.47 (log Koc, SRC PCKOCWIN v2.0, Calculated value)         |
| Ecology - soil   | Highly mobile in soil.  |

| 1-butanol (71-36-3)  |   |
|--|---|
| Surface tension  | 69.9 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)                      |
| Partition coefficient n-octanol/water (Log Pow)            | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | See section 12.1 on ecotoxicology 0.54 (log Koc, SRC PCKOCWIN v2.0, Calculated value)         |
| Ecology - soil   | Highly mobile in soil. May be harmful to plant growth, blooming and fruit formation.          |

| methyl acetate (79-20-9)                                   |  |
|--|--|
| Surface tension  | 24 mN/m (20 °C)  |
| Partition coefficient n-octanol/water (Log Pow)            | 0.18 (Experimental value, 20 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | See section 12.1 on ecotoxicology 0.18 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil   | Highly mobile in soil.   |

### 12.5. Other adverse effects

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

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|--|-------|
| Fluorinated greenhouse gases               | False |
| acetone (67-64-1)                          |       |
| Fluorinated greenhouse gases               | False |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) |       |
| Fluorinated greenhouse gases               | False |
| 1-butanol (71-36-3)                        |       |
| Fluorinated greenhouse gases               | False |
| methyl acetate (79-20-9)                   |       |
| 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.

### SECTION 14: Transport information

#### 14.1. UN number

UN-No. (ADG) : 1950  
UN-No. (IMDG) : 1950  
UN-No. (IATA) : 1950

#### 14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : AEROSOLS  
Proper Shipping Name (IMDG) : AEROSOLS  
Proper Shipping Name (IATA) : Aerosols, flammable

#### 14.3. Transport hazard class(es)

##### ADG

Transport hazard class(es) (ADG) : 2.1  
Danger labels (ADG) : 2.1  
:



##### IMDG

Transport hazard class(es) (IMDG) : 2.1  
Danger labels (IMDG) : 2.1  
:



##### IATA

Transport hazard class(es) (IATA) : 2.1  
Danger labels (IATA) : 2.1

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### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADG)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Marine pollutant              | : No                                     |
| Dangerous for the environment | : No                                     |
| Other information             | : No supplementary information available |

### 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)                     | : 1950                   |
| Special provision (ADG)          | : 63, 190, 277, 327, 344 |
| Limited quantities (ADG)         | : See SP 277             |
| Packing instructions (ADG)       | : P207, LP02             |
| Special packing provisions (ADG) | : PP87, L2               |

#### Transport by sea

|                                   |   |
|-----------------------------------|---|
| UN-No. (IMDG)                     | : 1950  |
| Special provisions (IMDG)         | : 63, 190, 277, 327, 344, 381, 959  |
| Packing instructions (IMDG)       | : P207, LP200   |
| Special packing provisions (IMDG) | : PP87, L2  |
| EmS-No. (Fire)                    | : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES                             |
| EmS-No. (Spillage)                | : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE) |
| Stowage category (IMDG)           | : None  |

#### Air transport

|  |                    |
|--|--------------------|
| UN-No. (IATA)                                | : 1950             |
| PCA Excepted quantities (IATA)               | : E0               |
| PCA Limited quantities (IATA)                | : Y203             |
| PCA limited quantity max net quantity (IATA) | : 30kgG            |
| PCA packing instructions (IATA)              | : 203              |
| PCA max net quantity (IATA)                  | : 75kg             |
| CAO packing instructions (IATA)              | : 203              |
| CAO max net quantity (IATA)                  | : 150kg            |
| Special provisions (IATA)                    | : A145, A167, A802 |
| ERG code (IATA)                              | : 10L              |

### 14.8. Hazchem or Emergency Action Code

|              |                  |
|--------------|------------------|
| Hazchem Code | : Not applicable |
|--------------|------------------|

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

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### Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002515

Group standard : Aerosols

#### acetone (67-64-1)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001070

#### toluene (108-88-3)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001227

#### phenol; carboic acid; monohydroxybenzene; phenylalcohol (108-95-2)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR006982

#### 2-methylpropan-1-ol; iso-butanol (78-83-1)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001097

#### 1-butanol (71-36-3)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001096

#### methyl acetate (79-20-9)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001188

#### amorphous silica (67762-90-7)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003053

#### carbon black (1333-86-4)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR002801

#### quartz (14808-60-7)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR003125

#### 1-methoxy-2-propanol (107-98-2)

##### Hazardous Substances and New Organisms Act

HSNO Approval Number HSR001187

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### phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2)

#### Hazardous Substances and New Organisms Act

|                      |  |
|----------------------|--|
| HSNO Approval Number | HSR001545(dilution)<br>HSR001571(dilution) |
|----------------------|--|

### trizinc bis(orthophosphate) (7779-90-0)

#### Hazardous Substances and New Organisms Act

|                      |           |
|----------------------|-----------|
| HSNO Approval Number | HSR003554 |
|----------------------|-----------|

### Xylene (1330-20-7)

#### Hazardous Substances and New Organisms Act

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

### 15.2. International agreements

No additional information available

## SECTION 16: Other information

Revision date : 11/05/2022

### Classification

|            |           |
|------------|-----------|
| Aerosol 1  | H222;H229 |
| Eye Dam. 1 | H318      |
| STOT SE 3  | H336      |

### Full text of H-statements

|                       |  |
|-----------------------|--|
| Acute Tox. 4 (Oral)   | Acute toxicity (oral), Category 4  |
| Acute Tox. 5 (Dermal) | Acute toxicity (dermal), Category 5  |
| Aerosol 1             | Aerosol, 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  |
| Skin Irrit. 2         | Skin corrosion/irritation, 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   |
| H313                  | May be harmful in contact with skin  |
| H315                  | Causes skin irritation   |
| H318                  | Causes serious eye damage  |
| H319                  | Causes serious eye irritation  |

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| Full text of H-statements |                                   |
|---------------------------|-----------------------------------|
| H335                      | May cause respiratory irritation  |
| H336                      | May cause drowsiness or dizziness |

For professional use only.

The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyers responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. U-POL data sheets are available via the U-POL website at [WWW.U-POL.COM](http://WWW.U-POL.COM).