# U-POL POWERCAN ETCH PRIMER AEROSOL

Safety Data Sheet

according to the Model Work Health and Safety Regulations

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

### 1.1. Product identifier

Product form : Mixture

Trade name : U-POL 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 : 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 - www.u-pol.com.au

**Supplier**
U-POL NEW ZEALAND LIMITED
c/o Lindsay & Associates
Unit H, 12 Amera Place, East Tamaki
Manukau City 2013 - New Zealand
T + 612 4731 2655 - F + 612 4731 2611
technicalsupport@u-pol.com - 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 aerosols, Category 1 | H222 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis | H336 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 3 | H412 |

### 2.2. Label elements

Hazard pictograms (GHS AU) :

Signal word (GHS AU) : Danger

Contains : acetone (5 - 23 %); methyl acetate (5 - 23 %); 1-methoxy-2-propanol (<10 %); 1-butanol (5 - 23 %); 2-methylpropan-1-ol; iso-butanol (< 5 %); toluene (< 5 %)

Hazard statements (GHS AU) :
H222 - Extremely flammable aerosol.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (GHS AU) :
P210 - Keep away from heat, hot surfaces, open flames, sparks. 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.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water
P305 - IF IN EYES: Rinse first with plenty of water and if necessary take medical advice
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional hazard statements (GHS AU) : AUH066 - Repeated exposure may cause skin dryness or cracking.

Unknown acute toxicity (GHS AU) : 2.36% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
4.64% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
16.8% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

| Name | CAS-No. | % | Classification according to the model Work Health and Safety Regulations (WHS Regulations) |
|---|---|---|---|
| acetone<br>() | 67-64-1 | 5 - 23 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| methyl acetate<br>() | 79-20-9 | 5 - 23 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| 1-methoxy-2-propanol<br>() | 107-98-2 | <10 | Flam. Liq. 3, H226<br>Acute Tox. 5 (Oral), H303<br>STOT SE 3, H336 |
| 1-butanol<br>() | 71-36-3 | 5 - 23 | 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 |
| 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 |
| 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) | | 91.82 - 94.73 | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Cough. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Immediately call a POISON CENTER/doctor. Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention.

First-aid measures after eye contact : Direct contact with the eyes is likely to be irritating. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell.

### 4.2. Symptoms caused by exposure

Symptoms/effects : Causes damage to organs (hearing organs) (Inhalation).

Symptoms/effects after inhalation : Shortness of breath. Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Extremely flammable aerosol.

| | | |
|---|---|---|
| Explosion hazard | : | Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. |
| General measures | : | Remove ignition sources. No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Use special care to avoid static electric charges. |

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

| | | |
|---|---|---|
| Firefighting instructions | : | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. DO NOT fight fire when fire reaches explosives. Evacuate area. |
| Protection during firefighting | : | Do not enter fire area without proper protective equipment, including respiratory protection. |

## SECTION 6: Accidental release measures

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

| | | |
|---|---|---|
| General measures | : | Remove ignition sources. No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Use special care to avoid static electric charges. |

#### 6.1.1. For non-emergency personnel

| | | |
|---|---|---|
| Protective equipment | : | Safety glasses. Protective clothing. Gloves. |
| Emergency procedures | : | Evacuate unnecessary personnel. |

#### 6.1.2. For emergency responders

| | | |
|---|---|---|
| Protective equipment | : | Equip cleanup crew with proper protection. Avoid breathing spray, vapours. |
| Emergency procedures | : | Ventilate area. |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

| | | |
|---|---|---|
| For containment | : | Contain released product. Collect spillage. |
| Methods for cleaning up | : | Store away from other materials. |

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

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Additional hazards when processed | : | Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use. |
| Precautions for safe handling | : | Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Avoid breathing spray, vapours. Do not spray on an open flame or other ignition source. |
| Hygiene measures | : | Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. |

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

| | | |
|---|---|---|
| Technical measures | : | Proper grounding procedures to avoid static electricity should be followed. |
| Storage conditions | : | Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. |
| Incompatible products | : | Strong bases. Strong acids. |
| Incompatible materials | : | Sources of ignition. Direct sunlight. Heat sources. |
| 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

| **acetone (67-64-1)** | | |
|---|---|---|
| Australia | Local name | Acetone |
| Australia | TWA (mg/m³) | 1185 mg/m³ |
| Australia | TWA (ppm) | 500 ppm |
| Australia | STEL (mg/m³) | 2375 mg/m³ |
| Australia | STEL (ppm) | 1000 ppm |
| New Zealand | Local name | Acetone |
| New Zealand | TWA (mg/m³) | 1185 mg/m³ |
| New Zealand | TWA (ppm) | 500 ppm |
| New Zealand | STEL (mg/m³) | 2375 mg/m³ |

| acetone (67-64-1) | | |
|---|---|---|
| New Zealand | STEL (ppm) | 1000 ppm |
| New Zealand | Regulatory reference | Worplace Exposure Standards and Biological Exposure Indices, 9th Edition |

| toluene (108-88-3) | | |
|---|---|---|
| Australia | Local name | Toluene |
| Australia | TWA (mg/m³) | 191 mg/m³ |
| Australia | TWA (ppm) | 50 ppm |
| Australia | STEL (mg/m³) | 574 mg/m³ |
| 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/m³) | 188 mg/m³ |
| New Zealand | TWA (ppm) | 50 ppm |
| New Zealand | Remark (NZ) | skin (Skin absorption) |
| New Zealand | Regulatory reference | Worplace Exposure Standards and Biological Exposure Indices, 8th Edition |

| 2-methylpropan-1-ol; iso-butanol (78-83-1) | | |
|---|---|---|
| Australia | Local name | Isobutyl alcohol (2-Methylpropan-1-ol; iso-Butanol) |
| Australia | TWA (mg/m³) | 152 mg/m³ |
| Australia | TWA (ppm) | 50 ppm |
| New Zealand | Local name | Isobutyl alcohol |
| New Zealand | TWA (mg/m³) | 152 mg/m³ |
| New Zealand | TWA (ppm) | 50 ppm |
| New Zealand | Regulatory reference | Worplace Exposure Standards and Biological Exposure Indices, 9th Edition |

| 1-butanol (71-36-3) | | |
|---|---|---|
| Australia | Local name | n-Butyl alcohol (n-Butanol) |
| Australia | OEL - Ceilings (mg/m³) | 152 mg/m³ |
| 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 | Worplace Exposure Standards and Biological Exposure Indices, 9th Edition |

| methyl acetate (79-20-9) | | |
|---|---|---|
| Australia | Local name | Methyl acetate |
| Australia | TWA (mg/m³) | 606 mg/m³ |
| Australia | TWA (ppm) | 200 ppm |
| Australia | STEL (mg/m³) | 757 mg/m³ |
| Australia | STEL (ppm) | 250 ppm |
| New Zealand | Local name | Methyl acetate |
| New Zealand | TWA (mg/m³) | 606 mg/m³ |
| New Zealand | TWA (ppm) | 200 ppm |
| New Zealand | STEL (mg/m³) | 757 mg/m³ |
| New Zealand | STEL (ppm) | 250 ppm |
| New Zealand | Regulatory reference | Worplace Exposure Standards and Biological Exposure Indices, 9th Edition |

| 1-methoxy-2-propanol (107-98-2) | | |
|---|---|---|
| Australia | Local name | Propylene glycol monomethyl ether (1-Methoxypropan-2-ol) |
| Australia | TWA (mg/m³) | 369 mg/m³ |

| 1-methoxy-2-propanol (107-98-2) | | |
|---|---|---|
| Australia | TWA (ppm) | 100 ppm |
| Australia | STEL (mg/m³) | 553 mg/m³ |
| Australia | STEL (ppm) | 150 ppm |
| New Zealand | Local name | Propylene glycol monomethyl ether |
| New Zealand | TWA (mg/m³) | 369 mg/m³ |
| New Zealand | TWA (ppm) | 100 ppm |
| New Zealand | STEL (mg/m³) | 553 mg/m³ |
| New Zealand | STEL (ppm) | 150 ppm |
| New Zealand | Regulatory reference | Worplace 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

No additional information available

### 8.4. Personal protective equipment

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Safety glasses.

Materials for protective clothing : Impermeable clothing

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s)

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance : Aerosol.

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 : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative density : No data available

Density : Density : 0.797 g/cm³

Solubility : insoluble in water. soluble in most organic solvents.

Log Pow : No data available

| | | |
|---|---|---|
| Viscosity, dynamic | : | ≈ |
| Explosive properties | : | No data available |
| Explosive limits | : | No data available |
| Minimum ignition energy | : | No data available |
| VOC content - Regulatory | : | No data available |
| Gas group | : | Press. Gas (Liq.) |

## SECTION 10: Stability and reactivity

| | | |
|---|---|---|
| Chemical stability | : | Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition. |
| Possibility of hazardous reactions | : | Not established. |
| Conditions to avoid | : | Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating. |
| Incompatible materials | : | Strong acids. Strong bases. |
| Hazardous decomposition products | : | fume. Carbon monoxide. Carbon dioxide. |

## SECTION 11: Toxicological information

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

| **acetone (67-64-1)** | |
|---|---|
| LD50 oral rat | 5800 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral) |
| LD50 dermal rabbit | 20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l) | 76 mg/l (Other, 4 h, Rat, Female, Experimental value, Inhalation (vapours)) |

| **toluene (108-88-3)** | |
|---|---|
| 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)) |

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

| **1-butanol (71-36-3)** | |
|---|---|
| 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) |

| **methyl acetate (79-20-9)** | |
|---|---|
| LD50 oral rat | 6482 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l) | 49 mg/l |

| **1-methoxy-2-propanol (107-98-2)** | |
|---|---|
| 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 |

| | | |
|---|---|---|
| Unknown acute toxicity (GHS AU) | : | 2.36% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>4.64% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>16.8% 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.
STOT-repeated exposure : Not classified

| methyl acetate (79-20-9) | |
|---|---|
| LOAEC (inhalation, rat, vapour, 90 days) | 2000 mg/l |
| NOAEC (inhalation, rat, vapour, 90 days) | 1057 mg/m³ |

Aspiration hazard : Not classified

| U-POL POWERCAN ETCH PRIMER AEROSOL | |
|---|---|
| Vaporizer | Aerosol |

Potential adverse human health effects and symptoms : Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Based on available data, the classification criteria are not met

## 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 - water : Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.
Other information : Avoid release to the environment.

| acetone (67-64-1) | |
|---|---|
| LC50 fish 1 | 5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration) |
| BCF fish 1 | 0.69 (Pisces) |
| BCF other aquatic organisms 1 | 3 (BCFWIN, Calculated value) |
| Log Pow | -0.24 (Test data) |

| toluene (108-88-3) | |
|---|---|
| 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) |

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

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

| methyl acetate (79-20-9) | |
|---|---|
| LC50 fish 1 | 250 - 350 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | 1026.7 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| BCF fish 1 | < 1 (Pisces, Literature study) |
| Log Pow | 0.37 (Calculated, KOWWIN, 25 °C) |
| 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) |

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

### 12.2. Persistence and degradability

| U-POL POWERCAN ETCH PRIMER AEROSOL | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

| acetone (67-64-1) | |
|---|---|
| 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 $O_2$/g substance |
| Chemical oxygen demand (COD) | 1.92 g $O_2$/g substance |
| ThOD | 2.2 g $O_2$/g substance |
| BOD (% of ThOD) | 0.872 (20 day(s), Literature study) |

| toluene (108-88-3) | |
|---|---|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 2.15 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 2.52 g $O_2$/g substance |
| ThOD | 3.13 g $O_2$/g substance |
| BOD (% of ThOD) | 0.69 |

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

| 1-butanol (71-36-3) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.1 - 1.92 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 2.46 g $O_2$/g substance |
| ThOD | 2.59 g $O_2$/g substance |
| BOD (% of ThOD) | 0.33 - 0.79 |

| methyl acetate (79-20-9) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Inherently biodegradable. |

| 1-methoxy-2-propanol (107-98-2) | |
|---|---|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| ThOD | 1.95 g $O_2$/g substance |

### 12.3. Bioaccumulative potential

| U-POL POWERCAN ETCH PRIMER AEROSOL | |
|---|---|
| Bioaccumulative potential | Not established. |

| acetone (67-64-1) | |
|---|---|
| BCF fish 1 | See section 12.1 on ecotoxicology |
| BCF other aquatic organisms 1 | See section 12.1 on ecotoxicology |
| Log Pow | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Not bioaccumulative. |

| toluene (108-88-3) | |
|---|---|
| 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). |

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

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

| 1-butanol (71-36-3) | |
|---|---|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| methyl acetate (79-20-9) | |
|---|---|
| BCF fish 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 (BCF < 500). |

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

### 12.4. Mobility in soil

| acetone (67-64-1) | |
|---|---|
| Surface tension | 0.0237 N/m |
| Log Pow | See section 12.1 on ecotoxicology |
| Ecology - soil | No (test)data on mobility of the substance available. |

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

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

| 1-butanol (71-36-3) | |
|---|---|
| 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. |

| methyl acetate (79-20-9) | |
|---|---|
| Surface tension | 0.024 N/m (20 °C) |
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Ecology - soil | Highly mobile in soil. |

| 1-methoxy-2-propanol (107-98-2) | |
|---|---|
| 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. |

### 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

| U-POL POWERCAN ETCH PRIMER AEROSOL | |
|---|---|
| Fluorinated greenhouse gases | False |

| acetone (67-64-1) | |
|---|---|
| Fluorinated greenhouse gases | False |

| toluene (108-88-3) | |
|---|---|
| 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 |

| 1-methoxy-2-propanol (107-98-2) | |
|---|---|
| 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.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Remove waste in accordance with local and/or national regulations. Container under pressure. Do not drill or burn even after use.

Additional information : Flammable vapours may accumulate in the container.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### 14.1. UN number

UN-No. (ADG) : 1950

UN-No. (IMDG) : 1950

UN-No. (IATA) : 1950

### 14.2. Proper Shipping Name - Addition

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

Hazard labels (IATA) : 2.1

:


### 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

### 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

**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

Hazchemcode : Not applicable

## 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 : HSR002515
Group standard : Aerosols

**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
Other information : None.
Classification:

| | |
|---|---|
| Flam. Aerosol 1 | H222 |
| Skin Irrit. 2 | H315 |
| Eye Dam. 1 | H318 |
| STOT SE 3 | H336 |
| Aquatic Chronic 3 | H412 |

Full text of H-statements:

| | |
|---|---|
| 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 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| 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. Aerosol 1 | Flammable aerosols, Category 1 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| 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 |
| H222 | Extremely flammable aerosol. |
| 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. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

SDS Australia U-POL

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