



DRIVING SURFACE PERFECTION

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations  
Issue date: 1/02/2017 Revision date: 3/05/2019 Supersedes: 3/05/2019 Version: 1.1

### SECTION 1: Product identifier

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : PLASTIKIT HARDENER  
Product code : CAT/2, CAT/5

#### 1.2. Other means of identification

Other means of identification : Component of: PK1

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

Recommended use : Hardener

#### 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 Amera 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

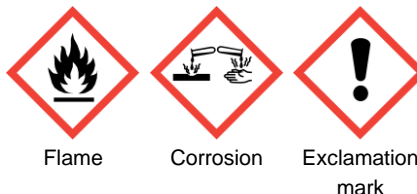
#### 2.1. Classification of the hazardous chemical

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

|   |      |
|---|------|
| Organic Peroxides, Type D                     | H242 |
| Acute toxicity (oral), Category 4             | H302 |
| Skin corrosion/irritation, Category 1B        | H314 |
| Serious eye damage/eye irritation, Category 1 | H318 |

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

Hazard pictograms (GHS AU) :



Signal word (GHS AU) : Danger

Contains : methylethyl ketone peroxide (30 – 60 %)

Hazard statements (GHS AU) : H242 - Heating may cause a fire  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS AU) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks  
P280 - Wear eye protection, protective clothing, protective gloves.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

P305 - IF IN EYES: Rinse first with plenty of water and if necessary take medical advice  
P312 - Call a doctor if you feel unwell.

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

### 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)  |
|---|-----------|---------|---|
| methylethyl ketone peroxide   | 1338-23-4 | 30 – 60 | Org. Perox. A, H240<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 5 (Dermal), H313<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318 |
| Other substances (not contributing to the classification of this product) | -         | 63 – 70 | -   |

## SECTION 4: First aid measures

### 4.1. Description of necessary 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 : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

First-aid measures after eye contact : 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. Call a POISON CENTER/doctor if you feel unwell. Immediately call a POISON CENTER/doctor.

### 4.2. Symptoms caused by exposure

Symptoms/effects : Causes severe skin burns and eye damage.

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

### 4.3. Medical attention and special treatment

No additional information available

## SECTION 5: Fire-fighting 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. Specific hazards arising from the chemical

General measures : No flames, no sparks. Eliminate all sources of ignition.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Acetic acid. Ethyl methyl ketone. Formic acid.

### 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.

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

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 : No flames, no sparks. Eliminate all sources of ignition.

##### 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.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Contain released product, collect/pump into suitable containers. Collect spillage.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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. Do not breathe fume, vapours. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

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

Technical measures : Comply with applicable regulations.

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 only in original container, Store away from other materials. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. combustible materials.

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 and personal protection

#### 8.1. Control parameters - exposure standards

##### methylethyl ketone peroxide (1338-23-4)

##### Australia - Occupational Exposure Limits

|            |                                     |
|------------|-------------------------------------|
| Local name | Methyl ethyl ketone peroxide (MEKP) |
| OES C      | 1.5 mg/m <sup>3</sup>               |

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

| methylethyl ketone peroxide (1338-23-4)    |  |
|--|--|
| OES C [ppm]                                | 0.2 ppm  |
| Regulatory reference                       | Workplace exposure standards for airborne contaminants (2019)              |
| New Zealand - Occupational Exposure Limits |  |
| Local name                                 | Methyl ethyl ketone peroxide   |
| WES-C (OEL C)                              | 1.5 mg/m <sup>3</sup>  |
| WES-C (OEL C) [ppm]                        | 0 ppm  |
| Regulatory reference                       | Workplace Exposure Standards and Biological Exposure Indices, 12th Edition |

### 8.2. Biological Monitoring

No additional information available

### 8.3. Engineering controls

No additional information available

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

|                                   |  |
|-----------------------------------|--|
| 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 face shield  |
| Skin and body protection          | : Wear suitable protective clothing  |
| Respiratory protection            | : Wear appropriate mask. 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                                      | : Clear, colorless liquid.        |
| Colour  | : Colourless                      |
| 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                                   | : No data available               |
| Flash point                                     | : > 60 °C                         |
| Auto-ignition temperature                       | : No data available               |
| Flammability                                    | : No data available               |
| Vapour pressure                                 | : Vapour pressure: 0.1 kPa        |
| Relative density                                | : No data available               |
| Density   | : Density: 1180 kg/m <sup>3</sup> |
| Solubility                                      | : partly miscible. Water.         |
| Partition coefficient n-octanol/water (Log Pow) | : No data available               |
| Viscosity, kinematic                            | : 20.339 mm <sup>2</sup> /s       |
| Viscosity, dynamic                              | : 24 mPa.s                        |
| Explosive properties                            | : None.                           |
| Oxidising properties                            | : Not applicable                  |
| Explosive limits                                | : No data available               |
| Minimum ignition energy                         | : No data available               |

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

SADT : 60 °C  
VOC content - Regulatory : No data available

### SECTION 10: Stability and reactivity

Reactivity : Thermal decomposition generates : Corrosive vapours.  
Chemical stability : Heating may cause a fire. SADT.  
Possibility of hazardous reactions : No additional information available  
Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Avoid shock and friction.  
Incompatible materials : metals. copper. Iron. Rust. Acids. Do not mix with peroxidation accelerator. Reducing agents. Strong acids. Strong bases.  
Hazardous decomposition products : Acetic acid. Formic acid. Ethyl methyl ketone. Water. fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

### SECTION 11: Toxicological information

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

|  |                       |
|--|-----------------------|
| ATE AU (oral)                                  | 1250 mg/kg bodyweight |
| <b>methylethyl ketone peroxide (1338-23-4)</b> |                       |
| LD50 oral rat                                  | 1017 mg/kg            |
| LD50 dermal rat                                | 4000 mg/kg            |
| LC50 Inhalation - Rat (Dust/Mist)              | 1.5 mg/l/4h           |
| ATE AU (oral)                                  | 1017 mg/kg bodyweight |
| ATE AU (dermal)                                | 4000 mg/kg bodyweight |
| ATE AU (dust,mist)                             | 1.5 mg/l/4h           |

Skin corrosion/irritation : Causes severe skin burns.  
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 : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

#### PLASTIKIT HARDENER

|                      |              |
|----------------------|--------------|
| Viscosity, kinematic | 20.339 mm²/s |
|----------------------|--------------|

Potential adverse human health effects and symptoms : Harmful if swallowed. 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

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified  
Other information : Avoid release to the environment.

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

### methylethyl ketone peroxide (1338-23-4)

|   |                         |
|---|-------------------------|
| BCF - Other aquatic organisms [1]               | 13 (Estimated value)    |
| Partition coefficient n-octanol/water (Log Pow) | 0.914 (Estimated value) |

### 12.2. Persistence and degradability

#### PLASTIKIT HARDENER

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

### methylethyl ketone peroxide (1338-23-4)

|                               |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Readily biodegradable in water.     |
| ThOD                          | 1.816 g O <sub>2</sub> /g substance |

### 12.3. Bioaccumulative potential

#### PLASTIKIT HARDENER

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

### methylethyl ketone peroxide (1338-23-4)

|   |  |
|---|--|
| BCF - Other aquatic organisms [1]               | 13 (Estimated value)                             |
| Partition coefficient n-octanol/water (Log Pow) | 0.914 (Estimated value)                          |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4). |

### 12.4. Mobility in soil

### methylethyl ketone peroxide (1338-23-4)

|   |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.914 (Estimated value)                               |
| Ecology - soil                                  | No (test)data on mobility of the substance available. |

### 12.5. Other adverse effects

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

#### PLASTIKIT HARDENER

|                              |       |
|------------------------------|-------|
| Fluorinated greenhouse gases | False |
|------------------------------|-------|

### methylethyl ketone peroxide (1338-23-4)

|                              |       |
|------------------------------|-------|
| 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. |
| Ecology - waste materials                  | : Avoid release to the environment.   |

## SECTION 14: Transport information

### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADG)  | : 3105 |
| UN-No. (IMDG) | : 3105 |
| UN-No. (IATA) | : 3105 |

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

### 14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : ORGANIC PEROXIDE TYPE D, LIQUID  
Proper Shipping Name (IMDG) : ORGANIC PEROXIDE TYPE D, LIQUID  
Proper Shipping Name (IATA) : Organic peroxide type d, liquid

### 14.3. Transport hazard class(es)

#### ADG

Transport hazard class(es) (ADG) : 5.2  
Danger labels (ADG) : 5.2  
:



#### IMDG

Transport hazard class(es) (IMDG) : 5.2  
Danger labels (IMDG) : 5.2  
:



#### IATA

Transport hazard class(es) (IATA) : 5.2  
Danger labels (IATA) : 5.2  
:



### 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) : 3105  
Special provision (ADG) : 122, 274, 323  
Limited quantities (ADG) : 125ml  
Packing instructions (ADG) : P520

#### Transport by sea

UN-No. (IMDG) : 3105  
Special provisions (IMDG) : 122, 274  
Limited quantities (IMDG) : 125 ml

# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

|                                    |  |
|------------------------------------|--|
| Excepted quantities (IMDG)         | : E0   |
| Packing instructions (IMDG)        | : P520   |
| EmS-No. (Fire)                     | : F-J - FIRE SCHEDULE Juliet - NON-TEMPERATURE-CONTROLLED SELF-REACTIVES AND ORGANIC PEROXIDES   |
| EmS-No. (Spillage)                 | : S-R - SPILLAGE SCHEDULE Romeo - ORGANIC PEROXIDES  |
| Stowage category (IMDG)            | : D  |
| Properties and observations (IMDG) | : Decomposes at elevated temperatures or in a fire. Burns vigorously. Immiscible with water except for acetyl acetone peroxide, tert-butylhydroperoxide and peroxyacetic acid, type D, stabilized. Contact with the eyes and skin should be avoided. May evolve irritant or toxic fumes. |

### Air transport

|  |                   |
|--|-------------------|
| UN-No. (IATA)                                | : 3105            |
| PCA Excepted quantities (IATA)               | : E0              |
| PCA Limited quantities (IATA)                | : Forbidden       |
| PCA limited quantity max net quantity (IATA) | : Forbidden       |
| PCA packing instructions (IATA)              | : 570             |
| PCA max net quantity (IATA)                  | : 5L              |
| CAO packing instructions (IATA)              | : 570             |
| CAO max net quantity (IATA)                  | : 10L             |
| Special provisions (IATA)                    | : A20, A150, A802 |
| ERG code (IATA)                              | : 5L              |

### 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

#### Hazardous Substances and New Organisms Act

|                      |  |
|----------------------|--|
| HSNO Approval Number | : HSR002667  |
| Group standard       | : Oxidising substances (class 5.1.1) and organic peroxides (class 5.2) |

#### methylethyl ketone peroxide (1338-23-4)

#### Hazardous Substances and New Organisms Act

|                      |           |
|----------------------|-----------|
| HSNO Approval Number | HSR001376 |
|----------------------|-----------|

### 15.2. International agreements

No additional information available

## SECTION 16: Other information

|                   |              |
|-------------------|--------------|
| Revision date     | : 03/05/2019 |
| Other information | : None.      |

### Classification

|                     |      |
|---------------------|------|
| Org. Perox. D       | H242 |
| Acute Tox. 4 (Oral) | H302 |
| Skin Corr. 1B       | H314 |
| Eye Dam. 1          | H318 |



# PLASTIKIT HARDENER

## Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

| Full text of H-statements           |  |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                |
| Acute Tox. 5 (Dermal)               | Acute toxicity (dermal), Category 5              |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1    |
| Org. Perox. A                       | Organic Peroxides, Type A                        |
| Org. Perox. D                       | Organic Peroxides, Type D                        |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1B           |
| H240                                | Heating may cause an explosion                   |
| H242                                | Heating may cause a fire                         |
| H302                                | Harmful if swallowed                             |
| H313                                | May be harmful in contact with skin              |
| H314                                | Causes severe skin burns and eye damage          |
| H318                                | Causes serious eye damage                        |
| H332                                | Harmful if inhaled                               |

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).