



U-POL PLASTIKIT HARDENER

Safety Data Sheet

according to the Model Work Health and Safety Regulations

DRIVING SURFACE PERFECTION

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SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier

Product form : Mixture
Trade name : U-POL 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. 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)

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. Label elements

Hazard pictograms (GHS AU) :



Signal word (GHS AU) : Danger
Contains : methylethyl ketone peroxide (23 - 43 %)
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, open flames, sparks. No smoking.
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/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 - IF IN EYES: Rinse first with plenty of water and if necessary take medical advice
P312 - Call a POISON CENTER/doctor if you feel unwell.
Additional hazard statements (GHS AU) : AUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

U-POL PLASTIKIT HARDENER

Safety Data Sheet

according to the Model Work Health and Safety Regulations

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
methylethyl ketone peroxide ()	1338-23-4	23 - 43	Org. Perox. A, H240 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Other substances (not contributing to the classification of this product)		60 - 70	

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	: 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. 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

General measures	: No flames, no sparks. Eliminate all sources of ignition.
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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.
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.
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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 material for containment and cleaning up

For containment	: Contain released product, 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.

U-POL PLASTIKIT HARDENER

Safety Data Sheet

according to the Model Work Health and Safety Regulations

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

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/personal protection

8.1. Control parameters - exposure standards

methylethyl ketone peroxide (1338-23-4)		
Australia	Local name	Methyl ethyl ketone peroxide
Australia	OEL - Ceilings (mg/m ³)	1.5 mg/m ³
Australia	OEL - Ceilings (ppm)	0.2 ppm
New Zealand	Local name	Methyl ethyl ketone peroxide
New Zealand	Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 8th 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 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.

U-POL PLASTIKIT HARDENER

Safety Data Sheet

according to the Model Work Health and Safety Regulations

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
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	: > 60 °C
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Vapour pressure : 0.1 kPa
Relative density	: No data available
Density	: Density : 1180 kg/m ³
Solubility	: partly miscible. Water.
Log Pow	: No data available
Viscosity, kinematic	: ≈ 20.339 mm ² /s
Viscosity, dynamic	: ≈ 24 mPa·s
Explosive properties	: None.
Oxidising properties	: Not applicable
Explosive limits	: No data available
Minimum ignition energy	: No data available
SADT	: 60 °C
VOC content - Regulatory	: No data available

SECTION 10: Stability and reactivity

Reactivity	: Thermal decomposition generates : Corrosive vapours. Thermal decomposition generates : Corrosive vapours
Chemical stability	: Heating may cause a fire. SADT.
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
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methylethyl ketone peroxide (1338-23-4)	
LD50 oral rat	484 mg/kg (Rat, Oral)
LC50 inhalation rat (mg/l)	1.5 mg/l (4 h, Rat, Inhalation)
LC50 inhalation rat (ppm)	200 ppm (4 h, Rat, Inhalation)

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
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

U-POL PLASTIKIT HARDENER

Safety Data Sheet

according to the Model Work Health and Safety Regulations

Aspiration hazard : Not classified

U-POL PLASTIKIT HARDENER	
Viscosity, kinematic	≈ 20.339 mm ² /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

Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified
Other information : Avoid release to the environment.

methylethyl ketone peroxide (1338-23-4)	
BCF other aquatic organisms 1	13 (Estimated value)
Log Pow	0.914 (Estimated value)

12.2. Persistence and degradability

U-POL 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 ₂ /g substance

12.3. Bioaccumulative potential

U-POL PLASTIKIT HARDENER	
Bioaccumulative potential	Not established.

methylethyl ketone peroxide (1338-23-4)	
BCF other aquatic organisms 1	See section 12.1 on ecotoxicology
Log Pow	See section 12.1 on ecotoxicology
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

methylethyl ketone peroxide (1338-23-4)	
Log Pow	See section 12.1 on ecotoxicology

12.5. Other adverse effects

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

U-POL 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

14.2. Proper Shipping Name - Addition

Proper Shipping Name (ADG) : ORGANIC PEROXIDE TYPE D, LIQUID
Proper Shipping Name (IMDG) : ORGANIC PEROXIDE TYPE D, LIQUID

U-POL PLASTIKIT HARDENER

Safety Data Sheet

according to the Model Work Health and Safety Regulations

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

Hazard 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

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

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P520

EmS-No. (Fire) : F-J - FIRE SCHEDULE Juliet - NON-TEMPERATURE-CONTROLLED SELF-REACTIVES AND ORGANIC PEROXIDES

U-POL PLASTIKIT HARDENER

Safety Data Sheet

according to the Model Work Health and Safety Regulations

EmS-No. (Spillage)	: S-R - SPILLAGE SCHEDULE Romeo - ORGANIC PEROXIDES
Stowage category (IMDG)	: D
Stowage and segregation (IMDG)	: Protected from sources of heat 'Separated from' acids and alkalis. See 7.2.6.3.2.
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
ERG code (IATA)	: 5L

14.8. Hazchem or Emergency Action Code

Hazchemcode	: Not applicable
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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	: HSR002667
Group standard	: Surface coatings and colourants

15.2. International agreements

No additional information available

SECTION 16: Any other relevant 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

Full text of H-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

SDS Australia U-POL

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