

Safety Data Sheet according to the Model Work Health and Safety Regulations Date of issue:27/01/2017 Revision date:

Version: 1.0

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DRIVING SURFACE PERFECTION

SECTION 1: Identification : Provide the second seco	oduct identifier and chemical identity
Product name	: BPO HARDENER (RBPO-AU)
Other means of identification	: HRED/L, GL/SM/D, GL/LA/D, H3840/S, HAR/BLM, EGCRED/L, MFE4S210AU, MFE4S150AU, BLIS/BF
Company identification	: U-POL AUSTRALIA PTY LIMITED Unit A, 16 - 20 Cassola Place Penrith, NSW 2750 - Australia T 02 4731 2655 - F 02 4731 2611 technical.depatment@u-pol.com - www.u-pol.com
Emergency telephone number	: + (61) - 290372994
SECTION 2: Hazards identification	ation
2.1. Classification of the hazardo	ous chemical

Classification (GHS-AU)

H242
H319
H317
H400

2.2. Label elements	
Hazard pictograms (GHS-AU)	Flame Exclamation mark Environment
Signal word (GHS-AU)	: Warning
Contains	: dibenzoyl peroxide, benzoyl peroxide
Hazard statements (GHS-AU)	: H242 - Heating may cause a fire H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H400 - Very toxic to aquatic life
Precautionary statements (GHS-AU)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P261 - Avoid breathing fume, vapours P273 - Avoid release to the environment P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305 - IF IN EYES: Rinse first with plenty of water and if necessary take medical advice P312 - Call a POISON CENTER or doctor/physician if you feel unwell

2.3. Other hazards

No additional information available

Name	CAS No	Compound type	%	
dibenzoyl peroxide, benzoyl peroxide	94-36-0		43 - 63	1
SECTION 4: First aid measures 4.1. Description of first aid measures				
irst-aid measures general	er give anything by mouth t ce (show the label where p	o an unconscious person. If y ossible).	you feel unwell, s	eek me
First-aid measures after inhalation	hove person to fresh air and w the victim to rest.	keep comfortable for breath	ing. Assure fresh	air brea

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First-aid measures after skin contact	b w b	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Wash with plenty of soap and water. Get medical advice/attention. Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or ash occurs: Get medical advice/attention.
First-aid measures after eye contact	d	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to lo. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion		Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison enter or a doctor if you feel unwell.
4.2. Symptoms caused by exposure		
Symptoms/injuries after inhalation	: N	lay cause an allergic skin reaction.
Symptoms/injuries after skin contact		lay cause an allergic skin reaction.
Symptoms/injuries after eye contact	: C	Causes serious eye irritation. Eye irritation.
4.3. Indication of any immediate medical	atte	ntion and special treatment needed
Other medical advice or treatment	: Т	reat symptomatically.
SECTION 5: Fire-fighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: F	oam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: D	Do not use a heavy water stream.
5.2. Special hazards arising from the sub-	star	nce or mixture
Fire hazard	: H	leating may cause a fire.
5.3. Special protective equipment and pre	ecal	utions for fire-fighters
Firefighting instructions		Jse water spray or fog for cooling exposed containers. Exercise caution when fighting any hemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	n	Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	ra j∈	Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat adiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray et from a protected position. Prevent water used in emergency cases from entering sewers and Irainage systems.
SECTION 6: Accidental release meas	ure	9S
6.1. Personal precautions, protective equ		
6.1.1. For non-emergency personnel		
Protective equipment	: s	Safety glasses. Protective clothing. Gloves.
Emergency procedures		/entilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no
		moking. Avoid contact with skin and eyes. Avoid breathing fume, vapours.
6.1.2. For emergency responders		Do not attempt to take action without avitable protective actionment. Equip cleanup arow with
Protective equipment	р	Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: V	/entilate area.
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify	auth	norities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containment	nt ar	nd cleaning up
For containment	: C	Collect spillage. Do not allow to dry.
Methods for cleaning up	g	Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Notify authorities if product enters sewers or public waters.
SECTION 7: Handling and storage, in	clu	iding how the chemical may be safely used
7.1. Precautions for safe handling		
Precautions for safe handling	s v p fl	Ensure good ventilation of the work station. Wash hands and other exposed areas with mild acoap and water before eating, drinking or smoking and when leaving work. Provide good rentilation in process area to prevent formation of vapour. Avoid breathing fume, vapours. Take precautions against electrostatic charges. Keep away from heat, hot surfaces, sparks, open lames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.

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Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. 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	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Ignition sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, Heat sources, Keep only in original container. Keep container closed when not in use. Store away from other materials. Protect from sunlight. Keep only in original container. Keep cool. Store in a well-ventilated place.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. combustible materials.
Storage temperature	: <30 ℃
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**

dibenzoyl peroxide, benzoyl peroxide (94-36-0)			
Australia Local name Benzoyl peroxide			
Australia	TWA (mg/m³)	5 mg/m ³	

Exposure limit values for the other components

Appropriate engineering controls

8.2.	Monitoring				
No add	ditional information available				

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



Environmental exposure controls

Other information

: Avoid release to the environment.

: Do not eat, drink or smoke during use.

9.1. SECTION 9: Physical and cher	mical properties
Physical state	: Solid
Appearance	: Paste.
Colour	: Various.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Freezing point : Not applicable
Boiling point	: No data available
Flash point	: Not applicable

8.3.

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Auto-ignition temperature	: Not applicable
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: Density : ≈ 1.1 g/cm ³ Relative density : Not applicable
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity	: Viscosity, kinematic : Not applicable
Explosive properties	: No data available
Explosive limits	: Not applicable
Minimum ignition energy	: No data available
SADT	: 50 °C
VOC content - Regulatory	: No data available

	i cacilitity
Reactivity	: Heating may cause a fire. Heating may cause a fire
Chemical stability	: Heating may cause a fire. SADT.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Strong acids. Strong bases. Combustible materials.
Hazardous decomposition products	: fume. Carbon monoxide. Carbon dioxide. Benzene.

11.1. SECTION 11: Toxicological info	ormation
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
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
BPO HARDENER (RBPO-AU)	
Density	≈ 1.1 g/cm ³
Viscosity, kinematic	Not applicable
Potential adverse human health effects and symptoms	: 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 - general	: Very toxic to aquatic life.
Ecology - water	: Very toxic to aquatic life.
Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Not classified
Other information	: Avoid release to the environment.

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12.2. Persistence and degradability	
BPO HARDENER (RBPO-AU)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
BPO HARDENER (RBPO-AU)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	· · · · · · · · · · · · · · · · · · ·
No additional information available	
12.5. Other adverse effects	
Ozone	: Not classified
Other adverse effects	: No additional information available
BPO HARDENER (RBPO-AU)	
Fluorinated greenhouse gases	False
dibenzoyl peroxide, benzoyl peroxide (94-36-	
Fluorinated greenhouse gases	False
SECTION 13: Disposal consideration	s
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 Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
UN-No. (ADG)	: 3108
UN-No. (IMDG)	: 3108
UN-No. (IATA)	: 3108
14.2. Proper Shipping Name - Addition	
Proper Shipping Name (ADG)	: ORGANIC PEROXIDE TYPE E, SOLID
Proper Shipping Name (IMDG)	: ORGANIC PEROXIDE TYPE E, SOLID
Proper Shipping Name (IATA)	: Organic peroxide type e, solid
14.3. Transport hazard class(es)	
ADG Transport hazard class(es) (ADG)	: 5.2
Danger labels (ADG)	5.2
	: •
	5.2
	▼
IMDG	
Transport hazard class(es) (IMDG)	: 5.2
Danger labels (IMDG)	: 5.2
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 5.2
Hazard labels (IATA)	: 5.2
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14.4. Packing group	
001	. Nat applicable
Packing group (ADG)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Marine pollutant	: Yes
Dangerous for the environment	: Yes
14.6. Special precautions for user	
Specific storage requirement	: No data available
	: No data available
Shock sensitivity	
14.7. Additional information	
Other information	: No supplementary information available
Transport by road and rail	
UN-No. (ADG)	: 3108
Special provision (ADG)	: 122, 274, 323
Limited quantities (ADG)	: 500g
Packing instructions (ADG)	: P520
Transport by sea	
UN-No. (IMDG)	: 3108
Special provisions (IMDG)	: 122, 274
Limited quantities (IMDG)	: 500 g
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
Stowage and segregation (IMDG)	: Protected from sources of heat 'Separated from' acids and alkalis.
Properties and observations (IMDG)	: Decomposes at elevated temperatures or in a fire. Burns vigorously. Insoluble in water. Contact with the eyes and skin should be avoided. May evolve irritant or toxic fumes.
Air transport	
UN-No. (IATA)	: 3108
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)	: 10kg
CAO packing instructions (IATA)	: 570
CAO max net quantity (IATA)	: 25kg
Special provisions (IATA)	: A20
ERG code (IATA)	: 5L
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14.8. Hazchem or Emergency Action Cod 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

Listed on the AICS (Australian Inventory of

: Listed on the AICS (Australian Inventory of Chemical Substances)

Chemical Substances)

International agreements 15.2.

No additional information available

Other information	: None.
Classification:	
Org. Perox. E	H242
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Acute 1	H400
Full text of H-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Org. Perox. B	Organic Peroxides, Type B
Org. Perox. E	Organic Peroxides, Type E
Skin Sens. 1	Sensitisation — Skin, Category 1
H241	Heating may cause a fire or explosion
H242	Heating may cause a fire
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H400	Very toxic to aquatic life

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