

Safety Data Sheet according to the Model Work Health and Safety Regulations Date of issue:27/01/2017 Revision date:01/05/2019

	ate of issue:27/01/2017 Revision date:01/05/2019 Supersedes: 28/11/2017 Vers	sion: 4.
SECTION 1: Identification : Pro	duct identifier and chemical identity	
1.1. Product identifier		
Product form	: Mixture	
Trade name	: ISOPON BPO HARDENER	
1.2. Other means of identification		
Other means of identification	: Component of: GL/LA/D, GL/SM/D, SSCF/PBX, MET/S, P38/PBX, P38/KIT,P38/S, P38/	'1,
	P38/5, P38/CART, P40/S, P40/1, P40/2, P40/4, P40/PBX, PBF/250, ALWH/KIT, ALWH/F BRKIT, PBF/PBX	
1.3. Recommended use of the che	emical and restrictions on use	
Recommended use	: Hardener	
1.4. Supplier's details		
Supplier	Supplier	
U-POL AUSTRALIA PTY LIMITED	U-POL NEW ZEALAND LIMITED	
Unit A, 16 - 20 Cassola Place	c/o Lindsay & Associates	
Penrith, NSW 2750 - Australia T 02 4731 2655 - F 02 4731 2611	Unit H, 12 Amera Place, East Tamaki Manukau City 2013 - New Zealand	
info@u-pol.co.nz - www.u-pol.com.au	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): 0	0080
	764 766	
SECTION 2: Hazards identificat	ion	
2.1. Classification of the hazardou		
	Nork Health and Safety Regulations (WHS Regulations)	
Organic Peroxides, Type E	H242	
Serious eye damage/eye irritation, Catego	ory 2A H319	
Skin sensitisation, Category 1	H317	
2.2. Label elements		
Hazard pictograms (GHS AU)		
Signal word (GHS AU)	: Warning	
Contains	: dibenzoyl peroxide; benzoyl peroxide (43 - 63 %)	
Hazard statements (GHS AU)	: H242 - Heating may cause a fire.	
nazaru statements (GHS AU)	H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.	
Precautionary statements (GHS AU)	 P210 - Keep away from heat, hot surfaces, open flames, sparks. No smoking. P264 - Wash hands thoroughly after handling. P280 - Wear eye protection, protective clothing, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P420 - Store away from other materials. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation 	ve
2.3. Other hazards		
No additional information available		
SECTION 3: Composition/inform	mation on ingredients	
Name	CAS-No % Classification according to the model W	lork

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
dibenzoyl peroxide; benzoyl peroxide ()	94-36-0	43 - 63	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317
dimethyl phthalate	131-11-3	23 - 43	Not classified
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Name		CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
ethanediol; ethylene glycol		107-21-1	< 23	Acute Tox. 4 (Oral), H302
Other substances (not contributing to the classification product)	of this		3.1 - 29.9	
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	: Remo	ove person to fresh a	ir and keep comf	ortable for breathing.
First-aid measures after skin contact		n skin with plenty of w nedical advice/attenti		ntaminated clothing. If skin irritation or rash occurs:
First-aid measures after eye contact	: Rinse	e eyes with water as a	a precaution.	
First-aid measures after ingestion	: Call a	poison center or a c	loctor if you feel u	unwell.
4.2. Symptoms caused by exposure				
Symptoms/effects after skin contact	: May o	cause an allergic skir	reaction.	
4.3. Indication of any immediate medical	attentio	n and special treatm	nent needed	
Other medical advice or treatment	: Treat	symptomatically.		
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Wate	r spray. Dry powder.	Foam.	
5.2. Special hazards arising from the sub	ostance o	or mixture		
Fire hazard	: Heati	ng may cause a fire.		
5.3. Special protective equipment and pr	ecautior	s for fire-fighters		
Protection during firefighting	appai	ratus. Complete prote	ective clothing.	le protective equipment. Self-contained breathing
Other information	radiat jet fro	ion may cause gas r	eceptacles to rup	ne surrounding fire. Exposure to fire and heat ture. Cool endangered receptacles with water spray used in emergency cases from entering sewers and
SECTION 6: Accidental release meas	sures			
6.1. Personal precautions, protective equ	uipment	and emergency pro	cedures	
6.1.1. For non-emergency personnel				
Protective equipment	: Safet	y glasses. Protective	clothing. Gloves.	
Emergency procedures		ate spillage area. No yes. Avoid breathing		sparks, and no smoking. Avoid contact with skin iist/vapours/spray.
6.1.2. For emergency responders				
Protective equipment		ot attempt to take acti to section 8: "Exposu		le protective equipment. For further information nal protection".
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containme				
For containment		ot allow to dry. Collec	1 0	
Methods for cleaning up	: wech	anically recover the p	product. Notify au	thorities if product enters sewers or public waters.
SECTION 7: Handling and storage, ir	ncludin	g how the chem	nical may be	safely used
7.1. Precautions for safe handling				
Precautions for safe handling	Keep smok breat	away from heat, hot ing. Wear personal p hing dust/fume/gas/n	surfaces, sparks protective equipm nist/vapours/spray	
Hygiene measures	clothi		not eat, drink or s	allowed out of the workplace. Wash contaminated moke when using this product. Always wash hands

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7.2.	Conditions for safe storage, incl	ng any incompatibilities
Storage	conditions	: Store away from other materials. Protect from sunlight. Keep only in original container. Keep cool. Store in a well-ventilated place.
Incompa	atible materials	: combustible materials.
Storage	temperature	: 5 - 25 °C (reccomended)
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

ISOPON BPO HARDENER		
Australia	Local name	Benzoyl peroxide
Australia	TWA (mg/m³)	5 mg/m³
Australia	Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.
New Zealand	Local name	Benzoyl peroxide
New Zealand	TWA (mg/m³)	5 mg/m³
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 8th Edition
dimethyl phthalate (131-11-3)	
Australia	Local name	Dimethylphthalate
Australia	TWA (mg/m³)	5 mg/m³
New Zealand	Local name	Dimethylphthalate
New Zealand	TWA (mg/m³)	5 mg/m³
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 8th Edition

ethanediol; ethylene g	lycol (107-21-1)	
Australia	Local name	Ethylene glycol
Australia	TWA (mg/m³)	10 mg/m³ (particulate) 52 mg/m³ (vapour)
Australia	TWA (ppm)	20 ppm (vapour)
Australia	Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.
New Zealand	Local name	Ethylene glycol (vapour and mist)
New Zealand	Regulatory reference	Worplace Exposure Standards and Biological Exposure Indices, 8th Edition

dibenzoyl peroxide; benzoyl	dibenzoyl peroxide; benzoyl peroxide (94-36-0)		
Australia	Local name	Benzoyl peroxide	
Australia	TWA (mg/m³)	5 mg/m³	
Australia	Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.	

Exposure limit values for the other components

8.2. Monitoring

No additional information available

8.3.	Appropriate engineering controls	
Approp	riate engineering controls	: Ensure good ventilation of the work station.
8.4.	Personal protective equipment	
Persona	al protective equipment	: Gloves. Protective clothing. Safety glasses.
Materia	Is for protective clothing	: Impermeable clothing
Hand p	rotection	: Protective gloves

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Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Neoprene rubber (HNBR), Nitrile rubber (NBR)	2 (> 30 minutes)	≥0.14mm		EN 374-3
Eye protection		: Safety glasses			

Eye protection

Skin and body protection

Respiratory protection

: Wear suitable protective clothing : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s)



Environmental exposure controls

: Avoid release to the environment.

Physical state	: Solid
Appearance	
	Paste.
Colour	: No data available
Odour	: No data available
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
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/cm³ Relative density : Not applicable
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, dynamic	: ~
Explosive properties	: No data available
Explosive limits	: Not applicable
Minimum ignition energy	: No data available
SADT	: 50 °C
VOC content	: 0 g/l
VOC content - Regulatory	No data available
SECTION 10: Stability and reactivi	ty
Reactivity	: Heating may cause a fire. Heating may cause a fire.
Chemical stability	: SADT.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Combustible materials.
Hazardous decomposition products	: Benzene.

SECTION 11: Toxicological	information	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	

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Acute toxicity (inhalation)

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: Not classified
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dimethyl phthalate (131-11-3)	
LD50 oral rat	8200 mg/kg bodyweight (Rat, Experimental value, Oral)
LD50 dermal rabbit	> 12000 mg/kg bodyweight (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	> 10.4 mg/l (6 h, Rat, Experimental value, Inhalation (vapours))
ethanediol; ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight (according to BASF-internal standards, Rat, Male/female, Experimental value, Aqueous solution, Oral, 7 day(s))
LD50 dermal	> 3500 mg/kg bodyweight (Mouse, Male/female, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	> 2.5 mg/l (6 h, Rat, Male/female, Experimental value, Inhalation (aerosol))
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

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	Very toxic to aquatic life.Not classifiedNot classified		
dimethyl phthalate (131-11-3)			
BCF fish 1	57 (Equivalent or similar to OECD 305, 21 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)		
Log Pow	1.54 (Experimental value, Equivalent or similar to OECD 107, 25 °C)		
Log Koc	1.57 (log Koc, SRC PCKOCWIN v1.66, Calculated value)		
ethanediol; ethylene glycol (107-21-1)			
LC50 fish 1	40761 mg/l (96 h, Salmo gairdneri, Static system)		
EC50 Daphnia 1	> 10000 mg/l (24 h, Daphnia magna)		
BCF fish 1	10 (72 h, Leuciscus idus)		
BCF other aquatic organisms 1	0.21 - 0.6 (Procambarus sp., Chronic)		
BCF other aquatic organisms 2	190 (24 h, Algae)		
Log Pow	-1.34 (Experimental value)		

12.2. Persistence and degradability

dimethyl phthalate (131-11-3)			
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	1.12 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance		
ThOD	1.73 g O ₂ /g substance		
ethanediol; ethylene glycol (107-21-1)			
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance		
ThOD	1.29 g O ₂ /g substance		
BOD (% of ThOD)	0.36		
2.3. Bioaccumulative potential			

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dimethyl phthalate (131-11-3)		
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).	
ethanediol; ethylene glycol (107-21-1)		
BCF fish 1	See section 12.1 on ecotoxicology	
BCF other aquatic organisms 1	See section 12.1 on ecotoxicology	
BCF other aquatic organisms 2	See section 12.1 on ecotoxicology	
Log Pow	See section 12.1 on ecotoxicology	
Bioaccumulative potential	Not bioaccumulative.	
12.4. Mobility in soil		

dimethyl phthalate (131-11-3)			
Log Pow	See section 12.1 on ecotoxicology		
Log Koc	See section 12.1 on ecotoxicology		
Ecology - soil	Highly mobile in soil.		
ethanediol; ethylene glycol (107-21-1)			
Surface tension	48 mN/m (20 °C)		
Log Pow	See section 12.1 on ecotoxicology		
Ecology - soil	No (test)data on mobility of the substance available.		
12.5. Other adverse effects			
Dzone	: Not classified		
Other adverse effects	: No additional information available		
ISOPON BPO HARDENER			
Fluorinated greenhouse gases	False		
dimethyl phthalate (131-11-3)			
Fluorinated greenhouse gases	False		
ethanediol; ethylene glycol (107-21-1)			
Fluorinated greenhouse gases	False		
dibenzoyl peroxide; benzoyl peroxide (94-36	;-0)		
Fluorinated greenhouse gases	False		

SECTION 13: Disposal considerations

Regional legislation (waste)			
Waste treatment methods			

: Disposal must be done according to official regulations.

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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			
Transpo	ort hazard class(es) (ADG)	: 5	.2
Danger	labels (ADG)	: 5	.2
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IMDG	
Transport hazard class(es) (IMDG)	: 5.2
Danger labels (IMDG)	: 5.2
	5.2
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Transport hazard class(es) (IATA)	: 5.2
Hazard labels (IATA)	: 5.2
	:
	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	
	. 2400
UN-No. (ADG) Special provision (ADG)	: 3108 : 122, 274, 323
Limited quantities (ADG)	: 500g
Packing instructions (ADG)	: P520
Transport by sea	
UN-No. (IMDG)	: 3108
Special provisions (IMDG)	: 122, 274
Packing instructions (IMDG)	: P520
EmS-No. (Fire)	: F-J - FIRE SCHEDULE Juliet - NON-TEMPERATURE-CONTROLLED SELF-REACTIVES
EmS-No. (Spillage)	: S-R - SPILLAGE SCHEDULE Romeo - ORGANIC PEROXIDES
Stowage category (IMDG)	D : Decomposes at elevated temperatures or in a fire. Burns vigorously, lessluble in water. Contact
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
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Special provisions (IATA)	: A20		
ERG code (IATA)	: 5L		
14.8. Hazchem or Emergency Action Co	de		
Hazchemcode	: Not applicable		
SECTION 15: Regulatory information	n		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
Standard for the Uniform Scheduling of Med	licines and Poisons (SUSMP)		
Covered by The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP	: This chemical is covered by the Standard for the Uniform Scheduling of Medicines and Poisons		
Relevant Poisons Schedule number	: Schedule 5		
Hazardous Substances and New Organisms	Act		

: Oxidising substances (class 5.1.1) and organic peroxides (class 5.2)

: HSR002629

15.2. International agreements

No additional information available

HSNO Approval Number Group standard

SECTION 16: Any other relevant information

Revision date	: 01/05/2019
Classification:	
Org. Perox. E	H242
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Full text of H-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Org. Perox. B	Organic Peroxides, Type B
Org. Perox. E	Organic Peroxides, Type E
Skin Sens. 1	Skin sensitisation, Category 1
H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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