

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations Issue date: 27/01/2017 Revision date: 1/05/2019 Supersedes: 28/11/2017 Version: 4.1

SECTION 1: Product identifier

1.1. GHS Product identifier			
Product form Trade name Product code	: Mixture : BPO HARDENER : H3840/S, HWHITE/L, HRED/L		
1.2. Other means of identification			
No additional information available			
1.3. Recommended use of the chemical and restrictions on use			
Recommended use	: Coating		
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 - 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 - 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 che	mical
Classification according to the model Work I	Health and Safety Regulations (WHS Regulations)
Organic Peroxides, Type E	H242
Serious eye damage/eye irritation, Category 2A	H319
Skin sensitisation, Category 1	H317
2.2. GHS Label elements, including pred	cautionary statements
Hazard pictograms (GHS AU)	Flame Exclamation mark
Signal word (GHS AU)	: Warning
Contains	: dibenzoyl peroxide (30 – 60 %)
Hazard statements (GHS AU)	: H242 - Heating may cause a fire
	H317 - May cause an allergic skin reaction
Precautionary statements (GHS AU)	 H319 - Causes serious eye irritation P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks 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 separately.

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P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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)
dibenzoyl peroxide	94-36-0	30 – 60	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Other substances (not contributing to the classification of this product)	-	48 – 55	-

SECTION 4: First aid measures			
4.1. Description of necessary first-aid me	easures		
First-aid measures after inhalation First-aid measures after skin contact	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. 		
First-aid measures after eye contact First-aid measures after ingestion	Rinse eyes with water as a precaution.Call a poison center or a doctor if you feel unwell.		
4.2. Symptoms caused by exposure			
Symptoms/effects after skin contact	: May cause an allergic skin reaction.		
4.3. Medical attention and special treatment			
Other medical advice or treatment	: Treat symptomatically.		

SECTION 5: Fire-fighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the chem	nical
Fire hazard Hazardous decomposition products in case of fire	Heating may cause a fire.Carbon monoxide. Carbon dioxide. Benzene.
5.3. Special protective equipment and prec	autions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering

sewers and drainage systems.

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SECTION 6: Accidental release measures					
6.1. Personal precautions, protective e	equipment and emergency procedures				
6.1.1. For non-emergency personnel					
Protective equipment Emergency procedures	 Safety glasses. Protective clothing. Gloves. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing vapours, fume. 				
6.1.2. For emergency responders					
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				
6.2. Environmental precautions					
Avoid release to the environment.					
6.3. Methods and materials for containment and cleaning up					
For containment Methods for cleaning up	 Do not allow to dry. Collect spillage. Mechanically recover the product. Notify authorities if product enters sewers or public waters. 				

SECTION 7: Handling and storage				
7.1. Precautions for safe handling	9			
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Take precautions against electrostatic charges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapours, fume. 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	: Store away from other materials. Protect from sunlight. Keep only in original container. Keep cool. Store in a well-ventilated place.			
Incompatible products	: Keep away from reducing agents/(strong) acids /(strong) bases and metals.			
Incompatible 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 and personal protection

8.1. Control parameters - exposure standards

BPO HARDENER		
New Zealand - Occupational Exposure Limits		
Local name	Benzoyl peroxide	
WES-TWA (OEL TWA) [1]	5 mg/m³	
Remark (NZ)	dsen (Dermal sensitiser)	
dibenzoyl peroxide (94-36-0)		
Australia - Occupational Exposure Limits		
Local name Benzoyl peroxide (Dibenzoyl peroxide)		
OES TWA [1] 5 mg/m ³		

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dibenzoyl peroxide (94-36-0)		
Remark (AU)	Sen - Respiratory and/or Skin Sensitiser.	
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)	
New Zealand - Occupational Exposure Limits		
Local name	Benzoyl peroxide	
WES-TWA (OEL TWA) [1]	5 mg/m³	
Remark (NZ) dsen (Dermal sensitiser)		
Regulatory reference Workplace Exposure Standards and Biological Exposure Indices, 12th Edition		

Exposure limit values for the other components

dimethyl phthalate (131-11-3)		
Australia - Occupational Exposure Limits		
Local name	Dimethylphthalate	
OES TWA [1]	5 mg/m³	
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)	
New Zealand - Occupational Exposure Limi		
Local name	Dimethylphthalate	
WES-TWA (OEL TWA) [1]	5 mg/m³	
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 12th Edition	
ethanediol; ethylene glycol (107-21-1)		
Australia - Occupational Exposure Limits		
Local name	Ethylene glycol (Ethane-1,2-diol)	
OES TWA [1]	10 mg/m ³ particulate 52 mg/m ³ vapour	
OES TWA [2]	20 ppm vapour	
OES STEL	104 mg/m³ vapour	
OES STEL [ppm]	40 ppm vapour	
Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.	
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)	
New Zealand - Occupational Exposure Limi	ts	
Local name	Ethylene glycol (vapour and mist)	
WES-C (OEL C)	127 mg/m³	
WES-C (OEL C) [ppm]	50 ppm	
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 12th Edition	
8.2. Biological Monitoring		

No additional information available

8.3. Engineering controls

Appropriate engineering controls

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

Personal protective equipment Materials for protective clothing Hand protection		ing :	 Gloves. Protective clothing. Safety glasses. Impermeable clothing Protective gloves 			
	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

Skin and body protection

Respiratory protection

: Wear suitable protective clothing

: Safety glasses

: 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.

SECTION 9: Physical and chemical properties

Physical state	: Solid	
Appearance	: Paste.	
Colour	: Red White Blue	
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	
Auto-ignition temperature	: Not applicable	
Flammability	: 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.	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
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	
Percent Solids	: 0 wt%	

SECTION 10: Stability and reactivity

Reactivity	: 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.

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SECTION 11: Toxicological information		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified 	
dibenzoyl peroxide (94-36-0)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male	
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	
Hazardous to the aquatic environment, short-term : (acute)	Very toxic to aquatic life. Not classified Not classified
dibenzoyl peroxide (94-36-0)	
LC50 - Fish [1]	0.0602 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.11 mg/l Test organisms (species): Daphnia magna
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	

 12.5. Other adverse effects
 Image: Not classified

 Ozone
 : Not classified

 Other adverse effects
 : No additional information available

 BPO HARDENER
 Fluorinated greenhouse gases

 Fluorinated greenhouse gases
 False

 dibenzoyl peroxide (94-36-0)
 False

 Fluorinated greenhouse gases
 False

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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) UN-No. (IMDG) UN-No. (IATA)	: 3108 : 3108 : 3108
14.2. UN Proper Shipping Name	
Proper Shipping Name (ADG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 ORGANIC PEROXIDE TYPE E, SOLID ORGANIC PEROXIDE TYPE E, SOLID Organic peroxide type e, solid
14.3. Transport hazard class(es)	
ADG Transport hazard class(es) (ADG) Danger labels (ADG)	: 5.2 : 5.2 :
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 5.2 : 5.2 :
IATA Transport hazard class(es) (IATA) Danger labels (IATA)	: 5.2 : 5.2 :
14.4. Packing group	
Packing group (ADG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Marine pollutant Dangerous for the environment Other information	 No No No supplementary information available
14.6. Special precautions for user	
Specific storage requirement Shock sensitivity	: No data available : No data available

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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
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. 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

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		
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Relevant Poisons Schedule number : Schedule 5		
Hazardous Substances and New Organisms ActHSNO Approval NumberGroup standard	HSR002629 Oxidising substances (class 5.1.1) and organic peroxides (class 5.2)	
ethanediol; ethylene glycol (107-21-1)		
Hazardous Substances and New Organisms Act		
HSNO Approval Number	HSR001534	
dibenzoyl peroxide (94-36-0)		
Hazardous Substances and New Organisms Act		
HSNO Approval Number	HSR001372(dilution) HSR007398(dilution)	
15.2. International agreements		
No additional information available		

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SECTION 16: Other information		
Revision date	: 01/05/2019	
Classification		
Org. Perox. E	H242	
Eye Irrit. 2A	H319	
Skin Sens. 1	H317	
Full text of H-statements		
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	
H317	May cause an allergic skin reaction	

For professional use only.

H319

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.

Causes serious eye irritation