



ISOPON BPO HARDENER

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations
Issue date: 27/01/2017 Revision date: 13/06/2023 Supersedes: 23/11/2021 Version: 6.0

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form : Mixture
Trade name : ISOPON BPO HARDENER
Product code : H3840/S

1.2. Other means of identification

Other means of identification : Component of: GL/LA/D, GL/SM/D, 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/PBX, BRKIT, PBF/PBX, P38/100, P40/100, PBF/100, ALWH/100

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 - 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 chemical

Classification according to the model Work 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 precautionary 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
H319 - Causes serious eye irritation
Precautionary statements (GHS AU) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

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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.
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 measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : 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 : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : 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.
Symptoms/effects after eye contact : Eye irritation.

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 chemical

Fire hazard : Heating may cause a fire.
Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Benzene.

5.3. Special protective equipment and precautions 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 equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.
Emergency procedures : 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 : Do not allow to dry.
Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : 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.
Hygiene measures : 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

ISOPON BPO HARDENER	
New Zealand - Occupational Exposure Limits	
Local name	Benzoyl peroxide
WES-TWA (OEL TWA) [1]	5 mg/m ³
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 12th Edition
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/m ³
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/m ³	
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)	
New Zealand - Occupational Exposure Limits		
Local name	Dimethylphthalate	
WES-TWA (OEL TWA) [1]	5 mg/m ³	
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/m ³ 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 Limits		
Local name	Ethylene glycol (vapour and mist)	
WES-C (OEL C)	127 mg/m ³	
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 : Ensure good ventilation of the work station.

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

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

Type	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
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

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
pH : 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: 1.2 (1.15 – 1.25) g/cm³
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

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)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

dibenzoyl peroxide (94-36-0)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male
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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

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: 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

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

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Fluorinated greenhouse gases	False
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dibenzoyl peroxide (94-36-0)

Fluorinated greenhouse gases	False
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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.

SECTION 14: Transport information

14.1. UN number

UN-No. (ADG) : 3108
UN-No. (IMDG) : 3108
UN-No. (IATA) : 3108

14.2. UN Proper Shipping Name

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



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

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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
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
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, 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

Standard for the Uniform Scheduling of Medicines 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

ethanediol; ethylene glycol (107-21-1)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR001534
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dibenzoyl peroxide (94-36-0)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR001372(dilution) HSR007398(dilution)
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15.2. International agreements

No additional information available

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SECTION 16: Other information

Revision date : 13/06/2023

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
H319	Causes serious eye irritation

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