

Safety Data Sheet

according to the Model Work Health and Safety Regulations

Date of issue:27/01/2017 Supersedes: 28/11/2017 Revision date:01/05/2019

# SECTION 1: Identification: Product identifier and chemical identity

**Product identifier** 

Product form : Mixture

: ISOPON BPO HARDENER Trade name

Other means of identification

: Component of: GL/LA/D, GL/SM/D, SSCF/PBX, MET/S, P38/PBX, P38/KIT,P38/S. P38/1. Other means of identification

P38/5, P38/CART, P40/S, P40/1, P40/2, P40/4, P40/PBX, PBF/250, ALWH/KIT, ALWH/PBX,

Version: 4.1

BRKIT, PBF/PBX

Recommended use of the chemical and restrictions on use

· Hardener Recommended use

Supplier's details 1.4.

Supplier

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1.5. **Emergency phone number** 

Emergency number : Australia (CHEMTREC): + (61) - 290372994 ; New Zealand (National Poisons Centre): 0800

764 766

## **SECTION 2: Hazards identification**

### 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. Label elements

Hazard pictograms (GHS AU)





Signal word (GHS AU) : Warning

Contains dibenzoyl peroxide; benzoyl peroxide (43 - 63 %)

H242 - Heating may cause a fire. Hazard 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

#### 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

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 of this product)		3.1 - 29.9	

### **SECTION 4: First aid measures**

### 4.1. Description of 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 eyes with water as a precaution.

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.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment : Treat symptomatically.

# SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Heating may cause a fire.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not atter

: 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.

#### **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 dust/fume/gas/mist/vapours/spray.

### 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 material for containment and cleaning up

For containment : Do not allow to dry. Collect spillage.

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

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

#### 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 dust/fume/gas/mist/vapours/spray.

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.

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## 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 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

150PON 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 glycol (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 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

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

## 8.4. Personal protective equipment

Personal protective equipment : Gloves. Protective clothing. Safety glasses.

Materials for protective clothing : Impermeable clothing Hand protection : 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

Skin and body protection : Wear suitable protective clothing

Respiratory protection : 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 : 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 : 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 : ≈ 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 :  $50 \, ^{\circ}\text{C}$  VOC content :  $0 \, \text{g/l}$ 

VOC content - Regulatory : No data available

# **SECTION 10: Stability and reactivity**

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) : Not classified

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.

: 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

Germ cell mutagenicity

Ecology - general : Very toxic to aquatic life.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not 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 <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.7 g O <sub>2</sub> /g substance
ThOD	1.73 g O <sub>2</sub> /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 <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.24 g O <sub>2</sub> /g substance
ThOD	1.29 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.36

### 12.3. 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	

No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

Ecology - soil

Ozone : Not classified

Other adverse effects : No additional information available

ISOPON BPO HARDENER			
Fluorinated greenhouse gases	False		
dimethyl phthalate (131-11-3)	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) : 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. 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

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#### **IMDG**

Transport hazard class(es) (IMDG) : 5.2
Danger labels (IMDG) : 5.2

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### 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) : 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

: 3108 UN-No. (IATA) PCA Excepted quantities (IATA) : E0 : Forbidden PCA Limited quantities (IATA) 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 Code

Hazchemcode : Not applicable

# **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Covered by The Standard for the Uniform

: This chemical is covered by the Standard for the Uniform Scheduling of Medicines and Poisons

Scheduling of Medicines and Poisons (SUSMP)

: Schedule 5

Relevant Poisons Schedule number

Hazardous Substances and New Organisms Act

HSNO Approval Number : HSR002629

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

#### 15.2. International agreements

No additional information available

## SECTION 16: Any other relevant information

Revision date : 01/05/2019

#### Classification

0.00000		
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.

#### SDS Australia U-POL

#### For professional use only

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