

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 20/04/2015 Revision date: : Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : BPO HARDENER (WHITE)

Product group : BPO Hardener

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Function or use category : Hardener (Crosslinker)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

U-POL LIMITED Denington Road Northants

NN8 2QH Wellingborough - UK

T +44 (0) 1933 230310 - F +44 (0) 1933 425797 technical.department@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : +44 1933 230310 (07:30 - 17:00hrs UK time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Self-react. C H242 Eye Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Acute 1 H400

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

E; R3 Xi; R36 R43 R7

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02





GHS07

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : dibenzoyl peroxide, benzoyl peroxide

Hazard statements (CLP) : 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 (CLP) : P202 - Do not handle until all safety precautions have been read and understood

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P411+P235 - Store at temperatures not exceeding 30°C. Keep cool

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
dibenzoyl peroxide, benzoyl peroxide	(CAS No) 94-36-0 (EC no) 202-327-6 (EC index no) 617-008-00-0	43 - 63	E; R3 O; R7 Xi; R36 R43
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dibenzoyl peroxide, benzoyl peroxide	(CAS No) 94-36-0 (EC no) 202-327-6 (EC index no) 617-008-00-0	43 - 63	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : 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.

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. Get medical

advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause an allergic skin reaction. Symptoms/injuries after eye contact : Causes serious eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

: Carbon monoxide. Carbon dioxide. Benzene.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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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 : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

from other materials.

Other information : Ensure adequate ventilation.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing fume, vapours. Take precautions against electrostatic charges.

Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out

of the workplace. Wash contaminated clothing before reuse.

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.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight, combustible materials.

Storage temperature : < 30 °C

Storage area : Store in a well-ventilated place.
Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dibenzoyl peroxide, benzoyl peroxide (94-36-0)			
United Kingdom	Local name	Dibenzoyl peroxide	
United Kingdom	WEL TWA (mg/m³)	5 mg/m³	

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Materials for protective clothing : Impermeable clothing
Hand protection : Wear protective gloves

Eye protection : Chemical goggles or 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

Other information : Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance Paste. Colour Various. Odour : characteristic. Odour threshold : No data available рΗ No data available Relative evaporation rate (butylacetate=1) No data available Melting point : No data available Freezing point : No data available : No data available **Boiling point** No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) May cause fire Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density : No data available : ≈ 1.1 g/cm³ Density Solubility insoluble in water. Log Pow : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive properties

Oxidising properties

Explosive limits

No additional information available

10.2. Chemical stability

Heating may cause a fire. SADT.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Benzene.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified Skin corrosion/irritation : Not classified

Based on available data, the classification criteria are not met

No data available

No data availableNo data available

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

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Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated

exposure)

: Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

12.2. Persistence and degradability

BPO HARDENER (WHITE)

Persistence and degradability Not established.

12.3. Bioaccumulative potential

BPO HARDENER (WHITE)

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste 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

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 3108

UN-No. (IMDG) : Not applicable

 UN-No.(IATA)
 : 3108

 UN-No.(ADN)
 : 3108

 UN-No. (RID)
 : 3108

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ORGANIC PEROXIDE TYPE E, SOLID

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Organic peroxide type e, solid

Proper Shipping Name (ADN) : ORGANIC PEROXIDE TYPE E, SOLID Proper Shipping Name (RID) : ORGANIC PEROXIDE TYPE E, SOLID

Transport document description (ADR) : UN 3108 ORGANIC PEROXIDE TYPE E, SOLID, 5.2, (D), ENVIRONMENTALLY

HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 5.2

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Danger labels (ADR) : 5.2



IMDG

Transport hazard class(es) (IMDG) : Not applicable



IATA

Transport hazard class(es) (IATA) : 5.2 Hazard labels (IATA) : 5.2



ADN

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



RID

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



14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : P1 Special provisions (ADR) : 122, 274

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: 500g Limited quantities (ADR) Excepted quantities (ADR) : E0 : P520 Packing instructions (ADR) Mixed packing provisions (ADR) : MP4 Transport category (ADR) : 2 Special provisions for carriage - Packages : V1

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV15, CV22, CV24

Tunnel restriction code (ADR) : D EAC code : 1W

14.6.2. Transport by sea

14.6.3. Air transport

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

Inland waterway transport 14.6.4.

Classification code (ADN) : P1 Special provisions (ADN) : 122, 274 Limited quantities (ADN) : 500 g Excepted quantities (ADN) : E0 Equipment required (ADN) : PP, EX, A : VE01 Ventilation (ADN) Number of blue cones/lights (ADN) : 0 Carriage prohibited (ADN) : No Not subject to ADN : No

14.6.5. Rail transport

Classification code (RID) : P1 Special provisions (RID) : 122, 274 Limited quantities (RID) : 500g Excepted quantities (RID) : E0 Packing instructions (RID) : P520 Mixed packing provisions (RID) : MP4 Transport category (RID) : 2 Special provisions for carriage - Packages : W7

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW22, CW24, CW29

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 539 Carriage prohibited (RID) : No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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VOC content : 0 g/l

Seveso Information : This product is subject to the Seveso Directive

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:

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
Self-react. C	Self-Reactive Substances and Mixtures, Type C
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
R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition
R36	Irritating to eyes
R43	May cause sensitisation by skin contact
R7	May cause fire
E	Explosive
0	Oxidising
Xi	Irritant

UPOL SDS EU (no product code)

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