

Safety Data Sheet HRED/L-US - UP0724 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/29/2015 Version: 1.0

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

Product identifier 1.1.

Product form Product name Product group : Mixture : HRED/L-US - UP0724

BPO Hardener

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

1.3. Details of the supplier of the safety data sheet

U-POL US Inc 108 Commerce Way Stockertown PA 18083 - USA T 1-800-340-7824 - F 1-800-787-5150 technical.department@u-pol.com - www.u-pol.com

1.4. **Emergency telephone number**

Emergency number

: CHEMTREC - 1-800-424-9300 (UK +44 (0) 1933 230310 (07:30 - 17:00hrs UK time))

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

GHS-US classification

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

Full text of H-phrases: see section 16

Label elements 2.2.

GHS-US labeling Hazard pictograms (GHS-US) GHS07 GHS02 GHS09 Signal word (GHS-US) : Danger Hazard statements (GHS-US) H242 - Heating may cause a fire H317 - May cause an allergic skin reaction H319 - Causes serious eve irritation H400 - Very toxic to aquatic life Precautionary statements (GHS-US) P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - If on skin: Wash with plenty of 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

23 **Other hazards**

No additional information available

2.4.	Unknown	acute	toxicity	(GHS-US)

Not applicable

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SECTION 3: Composition/Information on ingredients 3.1. Substance Not applicable 3.2.

Name	Product identifier	%	GHS-US classification
dibenzoyl peroxide, benzoyl peroxide	(CAS No) 94-36-0	43 - 63	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317

Full text of H-phrases: see section 16

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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 effe	ects, 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 medic	al 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 su	5.2. Special hazards arising from the substance or mixture		
No additional information available			
5.2 Advice for firefighters			

5.3.	Advice for firefighters	
Firefigh	ting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protect	ion during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other i	nformation	 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.

SECTI	ON 6: Accidental release mea	sures
6.1.	Personal precautions, protective ed	uipment and emergency procedures
6.1.1.	For non-emergency personnel	
Protectiv	e equipment	: Safety glasses. Protective clothing. Gloves.
Emerger	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	e equipment	: Equip cleanup crew with proper protection.
Emerger	cy procedures	: Ventilate area.
6.2.	Environmental precautions	
Description	and which a subscription of the definition of the second second second second second second second second second	

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

0.3.	wethods and material for containment	nt and cleaning up		
For conta	ainment	: Collect spillage. Do not allow to dry.		
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Methods for cleaning u	: 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. Expos	re controls and personal protection. For further information refer to section 13.
SECTION 7: Hand	ling and storage
7.1. Precautions	for safe handling
Precautions for safe ha	dling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

Frecautions for sale nanoling	smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing fume, vapors. 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, include	ing 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	3		
HRED/L-US - UP0724			
ACGIH	Not applicable		
OSHA	Not applicable	Not applicable	
dibenzoyl peroxide, benzoy	/l peroxide (94-36-0)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m ³	
ACGIH	Remark (ACGIH)	URT & skin irr	
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m³	

Exposure controls 8.2.

Personal protective equipment

: Avoid all unnecessary exposure. Gloves. Protective clothing. Safety glasses.



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. Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and chen	nical proportion
SECTION 3. FIVSICAL AND CHEI	

Physical state : Solid Appearance : Paste.	
Dhysical state	

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Odor	: characteristic	
Odor threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: ≈ 1.1 g/cm³	
Solubility	: insoluble in water.	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosion limits	: No data available	
9.2. Other information		
SADT	: 50 °C	
VOC content	: 0 g/l	
SECTION 10: Stability and reactivity	/	
10.1. Reactivity		
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 temperatu	nco.	
10.5. Incompatible materials		
Strong acids. Strong bases.		
10.6. Hazardous decomposition products		
fume. Carbon monoxide. Carbon dioxide. Benzene.		
SECTION 11: Toxicological informa	tion	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Consistentiaite	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
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dibenzoyl peroxide, benzoyl peroxide (94-36-0)		
3 - Not classifiable		
: Not classified		
Based on available data, the classification criteria are not met		
: Not classified		
: Not classified		
: Not classified		
: Based on available data, the classification criteria are not met.		
: May cause an allergic skin reaction.		
: Causes serious eye irritation.		

12.1. Toxicity Ecology - water

: Very toxic to aquatic life.

Persistence and degradability 12.2.

HRED/L-US - UP0724	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
HRED/L-US - UP0724	
Bioaccumulative potential	Not established.

Mobility in soil 12.4.

No additional information available

12.5. Other adverse effects	
12.5. Other adverse effects	
Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerati	ions
SECTION 13: Disposal considerati 13.1. Waste treatment methods	ions
	: Disposal must be done according to official regulations.
13.1. Waste treatment methods	

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information In accordance with DOT : UN3108 Organic peroxide type E, solid, 5.2, II Transport document description UN-No.(DOT) : UN3108

- Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)
- : Organic peroxide type E, solid
- : 5.2 Class 5.2 Organic Peroxide 49 CFR 173.128
- : 5.2 Organic peroxide



DOT Symbols Packing group (DOT)

- : G Identifies PSN requiring a technical name
- : II Medium Danger

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DOT Packaging Exceptions (49 CFR 173.xxx)	: 152
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 225
DOT Packaging Bulk (49 CFR 173.xxx)	: None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 10 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 25 kg
DOT Vessel Stowage Location	: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 12 - Keep as cool as reasonably practicable,40 - Stow "clear of living quarters",52 - Stow "separated from" acids,53 - Stow "separated from" alkaline compounds
Additional information	
Other information	: No supplementary information available.
ADR	
Transport document description	: UN 3108 ORGANIC PEROXIDE TYPE E, SOLID, 5.2, (D)
Class (ADR)	: 5.2 - Organic peroxide
Classification code (ADR)	: P1
Hazard labels (ADR)	: 5.2 - Organic peroxide
	5.2
Tunnel restriction code (ADR)	: D
LQ	: 500g
Excepted quantities (ADR)	: E0
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG)	: 3108 : ORGANIC PEROXIDE TYPE E, SOLID : 5.2 - Organic peroxide
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA)	 3108 Organic peroxide type e, solid 5.2 - Organic Peroxides
SECTION 15: Regulatory information	

SECTION 15: Regulatory information

15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

DIMETHYL PHTHALATE	CAS No 131-11-3	23 - 43	
dibenzoyl peroxide, benzoyl peroxide	CAS No 94-36-0	43 - 63	
dibenzoyl peroxide, benzoyl peroxide (94-36-0)			
Listed on the United States TSCA (Toxic Substances Cor	trol Act) inventory		

Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Self-react. C H242

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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]

15.2.2. National regulations

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other inform	nation	
Revision date	: 07/31/2015	
Other information	: None.	

Full text of H-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Org. Perox. B	Organic Peroxide Category B
Self-react. C	Self-reactive substances and mixtures Category C
Skin Sens. 1	Skin sensitization 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

NFPA health hazard	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 	2
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.	2 1
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.	

SDS US UPOL

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