

U-POL™

SAFETY DATA SHEET

HARDENER BPO

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Issued: 05/12/2007

Revision No: 7

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: HARDENER BPO

Product code: HRED/L

Use of substance / preparation: HARDENER CONTAINING BENZOYL PEROXIDE

Company name: U-Pol Products

Denington Industrial Estate

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2. HAZARDS IDENTIFICATION

Main hazards: May cause fire. Irritating to eyes. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: DIBENZOYL PEROXIDE 30-50%

EINECS: 202-327-6 CAS: 94-36-0

[E] R2; [Xi] R36; [Sens.] R43

- DIISOBUTYL PHTHALATE 10-30%

EINECS: 201-553-2 CAS: 84-69-5

[N] R50/53

- TITANIUM DIOXIDE 1-10%

[cont...]

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4. FIRST AID MEASURES (SYMPTOMS)

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and pain.
- Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation:** No symptoms.

4. FIRST AID MEASURES (ACTION)

- Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. Wash out mouth with water. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.
- Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Oxidising.
- Protection of fire-fighters:** Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Refer to section 8 of SDS for personal protection details.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up procedures:** Absorb into dry earth or sand. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area.
- Storage conditions:** Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed.
- Suitable packaging:** Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Workplace exposure limits**

WEL (8 hr exposure limit): 5 mg/m³

Respirable dust

WEL (8 hr exposure limit): 1 mg/m³

Hazardous ingredients: DIBENZOYL PEROXIDE

WEL (8 hr exposure limit): 5 mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Nitrile gloves.

Eye protection: Safety goggles. Ensure eye bath is to hand.

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Skin protection: Protective clothing. Rubber apron.**9. PHYSICAL AND CHEMICAL PROPERTIES****State:** Paste**Colour:** Red**Odour:** Barely perceptible odour**Evaporation rate:** Negligible**Oxidising:** Oxidising (by EC criteria)**Solubility in water:** Insoluble**Viscosity:** Viscous**Viscosity value:** 1000cps**Autoflammability°C:** >380**Relative density:** 1.2**VOC g/l:** 274**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Conditions to avoid:** Direct sunlight. Heat. Hot surfaces. Sources of ignition.**Materials to avoid:** Reducing agents. Acids. Bases. Metals.**Haz. decomp. products:** In combustion emits toxic fumes.**11. TOXICOLOGICAL INFORMATION****Hazardous ingredients:** DIBENZOYL PEROXIDE
ORL MUS LD50 5700 mg/kg
ORL RAT LD50 7710 mg/kg**Chronic toxicity:** May cause sensitisation by skin contact.**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**12. ECOLOGICAL INFORMATION****Mobility:** Insoluble in water.**Persistence and degradability:** Biodegradable.**Bioaccumulative potential:** No data available.**Other adverse effects:** Harmful to aquatic organisms.**13. DISPOSAL CONSIDERATIONS****Disposal operations:** D10 Incineration on land.**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3108 **ADR Class:** 5.2
Classification code: P1
Shipping name: ORGANIC PEROXIDE, TYPE E, SOLID
Labelling: 5.2

**IMDG / IMO**

UN no: 3108 **Class:** 5.2
EmS: F-J,S-R **Marine pollutant:** NO
Labelling: 5.2

IATA / ICAO

UN no: 3108 **Class:** 5.2
Packing instructions: 510(P&CA); 513(CAO)
Labelling: 5.2

15. REGULATORY INFORMATION

Hazard symbols: Irritant.
Oxidising.
Dangerous for the environment.



Risk phrases: R7: May cause fire.
R36: Irritating to eyes.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S2: Keep out of the reach of children.
S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46: If swallowed, seek medical advice immediately and show this container or label.

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Water hazard class: 2 Classification by VwVwS

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

US VOC CONVERSION FACTOR 250 g/l = 2.1 lb/gal

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with EC Directive 2001/58/EC.

FOR PROFESSIONAL USE ONLY. Read full instructions before use.

IMPORTANT: This product contains hazardous materials and therefore appropriate personal protective equipment should always be used.

Please refer to the label and consult the material safety data sheet for full handling instructions and personal protection information. These are available via your local stockist or via the U-POL website at WWW.U-POL.COM.

U-POL disclaim any liability where the user does not wear the recommended personal protective equipment.

Risk phrases used in s.3: R2: Risk of explosion by shock, friction, fire or other sources of ignition.

R36: Irritating to eyes.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Addition of reducers, hardeners and other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, this company shall not be held liable for any damage resulting from handling or from contact with the above product.