

**SAFETY DATA SHEET****MONOTEK® FLOORING – BPO Hardener****SECTION 1 - IDENTIFICATION**

**Product Identifier:** MONOTEK® Hardener Powder – Dibenzoyl Peroxide powder  
**Recommended Use:** As admixture (1 – 5% by weight) with MONOTEK® methyl methacrylate resin binder system for industrial floorings, toppings and protective coatings in form of self levelling systems, mortars and patching compounds.  
**Company Details:** **D.P.J. Coating Systems Pty Ltd** (Trade name owners – MONOTEK®)  
 Head Office: 2/ 25 Jersey Road, BAYSWATER, Victoria 3153  
 Ph: 1800 062 301 Fax: 03 9720 8540 E: [admin@dpj.com.au](mailto:admin@dpj.com.au)  
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**SECTION 2 – HAZARD IDENTIFICATION**

**Product Name:** MONOTEK® HARDENER POWDER BPO  
**Shipping Name:** Organic Peroxide Type D, Solid (Dibenzoyl peroxide )  
**U N Number:** 3106  
**Dangerous Goods Class:** 5.2  
**Sub Risk Class:**  
**Hazchem Code:**  
**Packaging Group:** II  
**Poison Schedule (S.U.S.D.P.):** Schedule 5  
**Use:** As admixture (1 –5%) for curing MONOTEK® MMA resin flooring.

**Environmental Harmful Health Hazard Flammable Oxidising Agent**

**SECTION 3 – COMPOSITION & PROPERTIES**

**Composition / Information on Ingredients** Dibenzoylperoxide in phthalic acid ester.

Component	CAS Number	Hazard symbols(s) / R phrase (s)	Content
Dibenzoyl peroxide, benzoyl peroxide	94-36-0	E, Xi 2-36-43	30 – 60%
Dicyclohexylphthalate	84-61-7		30 – 60%



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This MSDS summarises, to our best knowledge at the date of issue, the health and safety hazards of the product and provides general guidance on how to safely handle it in the workplace. Since D.P.J. Coating Systems Pty Ltd cannot anticipate all the conditions and situations under which the product may be used, each user must, prior to use, assess and control the risks arising from the use of the product.

**SECTION 4 – FIRST AID MEASURES****Health Effects**

**Acute:** Irritating to eyes. May cause sensitisation by skin contact.

**Chronic:**

**First Aid:****General information:**

Medical treatment is necessary if symptoms are evidently caused by the effects on the skin or the eyes or by inhalation of its dust. Remove soiled, soaked clothing immediately

**Contact:**

**Skin** - WASH OFF WITH WATER AND SOAP. IF SKIN IRRITATION OCCURS CONSULT DOCTOR.

**Eyes** - FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER AND SEEK MEDICAL ADVICE.

**Swallowed** - DO NOT INDUCE VOMITING. CALL A DOCTOR IMMEDIATELY.

**Inhalation:** IN CASE OF COMPLAINTS GET MEDICAL ADVICE.

**Emergency number**

Product number to be identified Bus ( 03 ) 9720 8777 or Free Call 1800 062 301 AH ( 03 ) 9727 2299

**SECTION 5 – FIRE-FIGHTING MEASURES****Fire/Explosion Hazard:**

**Information on fire and explosion protection:** Take precautionary measures against static discharges.

Avoid dust formation. In the event of fire, cool the endangered containers with water. Fire fighting must be carried out at a safe distance. Keep away from sources of ignition. No smoking!

**Extinguishing substances:**

**Suitable extinguishing media:** Water spray, foam, dry chemical, carbon dioxide.

**Unsuitable extinguishing media for safety reasons:** Full water jet, halones.

**Special protective equipment for fire fighting:** Wear self contained breathing apparatus.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES****Spills and Disposal:****SPILLS -**

**Precautionary measures related to people:** Avoid dust formation. Use personal protective clothing. Use breathing apparatus if exposed to vapours / dust/ aerosols or mists.

**Environmental protective measures:** Prevent product from entering drains/ surface water/ ground water.

**Methods of cleaning/ absorption:** Take up mechanically. Dispose of in accordance with regulations.

**DISPOSAL -**

**Product:** Waste is hazardous and therefore must be kept under particular surveillance. It must be disposed of in accordance with the regulations after consultation with the relevant local authorities and the disposal company in a suitable and licenced facility.

**Uncleaned packaging:** Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of professionally. Uncleaned packaging may be taken for recycling.

**Code of Waste EWC:** 08 04 02 Waste from the manufacture, formulation, supply and use (MFSU) of adhesives and sealants (including waterproofing products) - waste adhesives and sealants free of halogenated solvents. Always check given waste codes according to the actual conditions of



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**SECTION 7 – HANDLING & STORAGE**

**Handling: Instructions on safe handling:** Avoid dust formation. Keep containers tightly closed. Do not return residues to the storage containers. Keep away from dirt, rust, chemicals, concentrated alkalis, concentrated acids, accelerators (eg. Heavy metal salts and amines).

**Information on fire & explosion protection:** Take precautionary measures against static discharges. Avoid dust formation. . In the event of fire, cool any endangered containers with water. Fire fighting must be carried out from a safe distance. Keep away from sources of ignition – NO SMOKING

**Storage: Requirements for storage areas and containers:** Keep only in original containers at a temperature not exceeding 25°C. Protect from sun/ exposure to heat sources.

**SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION****Personal Protection**

**General protective measures:** Do not inhale dust. Avoid contact with eyes and skin.

**Respiratory protection:** Respiratory protection in case of dust formation short term: filter appliance, filter P2.

**Hand protection:** Neoprene gloves, synthetic rubber gloves.

**Eye Protection:** Tightly fitting goggles.

**Body Protecton:** When handling larger quantities – face mask, chemical resistant boots and apron.

**Industrial Hygiene:**

Follow the usual good standards of occupational hygiene. Remove soiled or soaked clothing immediately. Store work clothing separately. Use skin protective preparation as preventive skin protection.

**Flammability:**

Take precautionary measures against static discharges. Keep away from sources of ignition **No smoking !**

**SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES****Physical Description & Properties:**

**Appearance - Form:** Powder

**Colour:** White

**Odour:** Faint characteristic odour.

**Change in Physical State:**

<b>Melting temperature</b>	>40°C
<b>Boiling temperature</b>	not applicable (Decomposition)
<b>Solubility in water</b>	Insoluble
<b>Vapour pressure</b>	not determined
<b>Viscosity (dynamic)</b>	not applicable
<b>Flashpoint</b>	not applicable
<b>Ignition temperature</b>	not determined
<b>Spontaneous ignition</b>	>380°C
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable

**Other properties:**

<b>PH value</b>	not applicable
<b>Density</b>	1.23 g/cm <sup>3</sup> at 20°C
<b>Bulk density</b>	620 – 650 kg/m <sup>3</sup> at 20°C

**Further information:** Dust explosions are generally to be expected with dust forming organic products.



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**SECTION 10 – STABILITY & REACTIVITY**

**Thermal decomposition:** >60°C SADT (Dibenzoyl peroxide)

**Hazardous Decomposition products:** On thermal decomposition flammable & hazardous vapours are formed.

**Hazardous reactions:** Violent decomposition of the peroxide occurs on direct contact with accelerators, e.g. heavy metal salts, tertiary amines, conc. mineral acids, fuels & alkali reducing agents.

**Hazards Identification:**

**Hazardous according to criteria of Worksafe Australia.**

May cause fire. Irritating to eyes. May cause sensitisation by skin contact.

**SECTION 11 – TOXICOLOGICAL INFORMATION****Toxicity:****Acute oral toxicity:**

LD50 rat, Source:Literature > 5000 mg/kg

The data mentioned above refers to the component dibenzoyl peroxide.

LD50 rat Source Literature > 2000 mg/kg

The data mentioned above refers to the component dicyclohexyl phthalate.

**Acute inhalational toxicity:** LC50 rat, 4 h Source:Literature 24.3 mg/l

The data mentioned above refers to the component dibenzoyl peroxide.

**Irritant effect on the skin:**

Contact with the skin may cause irritations.(The data mentioned above refers to the product.)

**Irritant effect on the eyes:** Irritating (analogy)

The data mentioned above refers to the product.

**Sensitization:** Sensitizing. Guinea pig, Buhler test.

Source: literature. The data mentioned above refers to the component dibenzoyl peroxide.

**Mutagenicity:** Not mutagenic in bacteris in vitro.

Source:Literature. The data mentioned above refers to the component dibenzoyl peroxide.

**Further information on toxicology:**

*There is no toxicological data available for the product as such. Avoid contact with the skin and eyes and inhalation of product dust.*

**SECTION 12 – ECOLOGICAL INFORMATION****Ecological effects:****Information on elimination (persistence and degradability):**

**Biodegradability:** Biodegradable (analogy)

**Ecotoxicological effect:****Fish toxicity:**

LC50 poecilia reticulata, 96h Source: literature. 2 mg/l

The data mentioned above refers to the component dibenzoyl peroxide.

NOEC poecilia reticulata, 96 h Source: literature 0.7 mg/l

The data mentioned above refers to the component dibenzoyl peroxide.

**Daphnia toxicity:** LC50 daphnia magna, 48 h Source literature 3.7 mg/l

The data mentined above refer to the component dibenzoyl peroxide.

**Further information on ecology:** Do not allow product to enter soil, waterways or waste water.



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**SECTION 13 – DISPOSAL CONSIDERATIONS****DISPOSAL -**

**Product:** Waste is hazardous and therefore must be kept under particular surveillance. It must be disposed of in accordance with the regulations after consultation with the relevant local authorities and the disposal company in a suitable and licenced facility.

Uncleaned packaging: Contaminated packaging/ containers should ideally be emptied completely, professionally cleaned and then reused. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

**Code of Waste EWC:** 08 01 02 Waste from the manufacture, formulation, supply and use (MFSU) of paint and varnish – waste paints and varnish free of halogenated solvents. Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

**WRK/ANSI: Empty container warnings**

Improper disposal or reuse of this container may be dangerous and illegal. Refer to applicable federal, state or local regulations. Since emptied containers retain product powder residue, follow label warnings even after container is emptied.

**SECTION 14 – TRANSPORT INFORMATION****Transport:****A.D.G. Classification -**

**UN Number:** 3106      **Dangerous Goods Class:** 5.2

**Sub Risk Class:****HAZCHEM Code:**

**Packaging Group:** II

**Name of Product (Proper shipping name for surface transport):**

ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

**Compatibility and Segregation:**

Must not be carried with dangerous goods with which it may interact so as to cause risk or danger to persons, property or the environment.

**Inland waterway transport ADNR**

Class 5.2      item 6b      UN Number 3106

Technical dispatch name: 3106 Organic peroxide, type D, solid \*)

**Shipment by sea IMDG/GGVSee**

Class 5.2      EmS 5.2-01      MFAG 735      UN number 3106      Marine pollutant

Packed (+/0): 0      Packaging Group: II      Proper Shipping name: Organic peroxide, type D, solid \*\*)

Hazardous constituent: dibenzoyl peroxide

**Air Transport ICAO/IATA**

Class 5.2      UN Number: 3106      Packaging group: II

Proper shipping name: Organic peroxide, type D, solid \*\*)

**DOT**

Organic peroxide, type D, solid      UN number: 3106

*Further information:*      \*) ( dibenzoyl peroxide)      \*\*) ( dibenzoyl peroxide)



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**SECTION 15 – REGULATORY INFORMATION****Regulatory information:****Hazardous components:** Contains Dibenzoyl peroxide, benzoyl peroxide.

<b>Hazard symbol(s):</b>	O	Oxidizing
	Xi	Irritant
<b>R-Phrases:</b>	R 7	May cause fire.
	R 36	Irritating to eyes.
	R43	May cause sensitization by skin contact.
<b>S-phrase:</b>	S 2	Keep out of the reach of children.
	S 3/7	Keep container tightly closed in a cool place.
	S 14	Keep away from reducing agents, heavy metal compounds radical inhibitors, acids and alkalis.
	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

**SECTION 16 – FURTHER INFORMATION****Miscellaneous Information:**

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may oxidise heat evolution.

**Further Information:**

The product is usually supplied in a stabilized form. MONOTEK® is a reactive methyl methacrylate resin flooring system. Its hardening time is approx. 15 minutes after mixing with 3% w/w of MONOTEK® BPO hardener. It is used as flooring resurfacing / repair system, in particular on cement-bonded substrates. We recommend to look up all of the details listed in our technical leaflets.

**Contact Point:** Mr. Craig Jones DIRECTOR (03) 9720 8777**Date:** December, 2016

*For further information, MSDS, technical data...visit -*  
**WWW.MONOTEK.COM.AU**



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