

HiChem Paint Technologies Pty.Ltd.

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**IDENTIFICATION of the SUBSTANCE(S) and COMPOSITION**

Product Name	HARDENER	Code	H
Product Use	Benzoyl Peroxide based hardener for curing of HICHEM Polyester Body Fillers.		
PIngredients	Name	CAS Number	Proportion w/w
	Benzoyl Peroxide	94 – 36 - 0	50 %
	Di Iso Butyl Phosphate	84 – 69 – 5	10 – <30 %
	Inert Inorganic Filler	Not Known	10 – <30 %

HAZARD IDENTIFICATION

The product is classified as both **Dangerous Goods and Hazardous Substance** in accordance to ASCC

Risk Phrases R

- 7 May cause fire.
 21/22 Harmful in contact with the skin and if swallowed.
 36 Irritating to the eyes.
 43 May cause sensitization to the skin.
 51/53 Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

Safety Phrases S

- 2 Keep out of reach of children.
 7/9 Keep containers tightly closed when not in use and also in a well ventilated area.
 14/17 Keep away from flammable and combustible organic compounds
 15/16 Keep away from heat. Keep away from sources of ignition
 18 Handle and open container with care.
 20/21 When using, do not eat, drink or smoke.
 23.4 Do not breathe fumes.
 24/25 Avoid skin contact and with the eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 27 Take off immediately all contaminated clothing.
 28.1 In contact with the skin, wash immediately soap and plenty of water.
 36/37/38/39 The wearing of an Organic Vapour Respirator, Safety Glasses fitted with side – shields, Viton or PVC gloves, enclosed footwear, hair protection, high temperature and anti – static clothing.
 45 In case of accident, or if you feel unwell, seek medical advice immediately. Show the label where possible.
 62 If swallowed, do not induce vomiting: seek medical advice immediately. Show the label where possible.

HAZARD IDENTIFICATION (continued)

The product is classified as both **Dangerous Goods and Hazardous Substance** in accordance to ASCC

ADG Classification ORGANIC PEROXIDE – TYPE E SOLID, immiscible in water, UN 3108, HAZCHEM Not Defined, Class 5.2, Packing Group Not Defined, Initial Emergency Response Guide 32.

SUSDP Classified as a Schedule S 5 poison

FIRST AID MEASURES

Inhalation If the applicator feels drowsy, dizzy, tired or experiencing headaches, remove the victim to the fresh air. Keep the victim warm and quiet until all symptoms subside.

Ingestion If swallowed, and only if the person is conscious, give plenty of water to drink. Do **NOT** induce vomiting. Seek medical attention urgently if any symptoms occur.

Eyes If splashed into eyes, hold eyes open, irrigate copiously with clean water for at least 15 minutes. Seek immediate medical attention if any irritation occurs.

Skin and Hair If skin or hair contact occurs, remove all contaminated clothing, flush skin and hair with running water. Seek medical attention if any irritation occurs.

First Aid Facilities Clean Water Supply, soap or skin cleaner, barrier cream, emergency showers and eye wash stations.

Advice to Doctor If poisoning occurs, consult with the Poisons Information Centre {Telephone **13 11 26**}. Have a copy of this material safety data sheet or label available. Treat symptomatically as systems may be delayed for several hours after exposure.

**FIRE FIGHTING MEASURES**

Extinguishing Media and Requirements Carbon Dioxide {CO₂}, alcohol resistant foam, dry chemical or water spray. **DO NOT** use water jets. Bund area with sand to prevent run – off entering waterways and drains.

Fire Fighting Procedures & Precautions Fire – fighters **must** wear Chemical Splash Suit with attached Self – Contained Breathing Apparatus and gloves. Evacuate all non fire–fighting personnel away from the area. Turn off all electricity and power supplies. Keep containers cool with water spray to prevent rupture or burning. Move away all containers and equipment from the direction of the fire, if safe to do so. Keep upwind. Ensure all these procedures are carried out to prevent a major catastrophe that may occur.

Flammability Hazardous Decomposition Products Flash Point = > 150 °C
On heating, containers may rupture and explode: contents may burn rapidly forming toxic gases including carbon dioxide, benzoic acid, biphenyl, benzene and phenyl benzoate.



ACCIDENTAL RELEASE MEASURES

Spills and Leaks	Contain all spills and leaks. Flooded the contaminated surface with plenty of water. Use clean non – sparking tools to collect all residues and place it into loosely – covered plastic containers for disposal. Remove all sources of ignition, combustible and flammable materials away. NO SMOKING. Wear the recommended full body impervious clothing, gloves and breathing apparatus as per AS– NZ 1715/16 at all times. Keep upwind. Wear recommended protective clothing at all times. Ensure there is always adequate ventilation at all times.
Disposal	Contact the Local Statutory Authorities prior of disposing the spent material.
Other Precautions	Avoid contaminating waterways, drains, water courses and sewage.

**HANDLING and STORAGE**

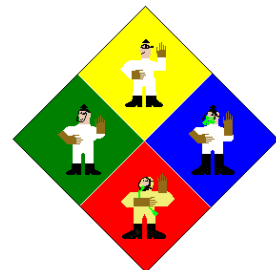
Handling	Keep out of reach of children. Avoid unnecessary contact with the material. After use before eating, drinking or smoking wash all exposed skin with soap and water.
Storage	Containers must be clearly labelled, rigid and strong. Store upright in a cool, dry, well ventilated area from heat, ignition sources and direct sunlight e.g. Oxidizing Goods Store as per AS 2714 requirements. Ensure all containers securely sealed and away from reducing agents, heavy metal compounds, acids and alkalis.

EXPOSURE CONTROLS

Exposure Standards MAK	Benzoyl Peroxide = 5 mg/m ³ .
Exposure Standards STEL	Di Iso Butyl Phthalate = 5 mg/m ³ . Benzoyl Peroxide = 5 mg/m ³ .
Engineering Controls	The use of local exhaust ventilation equipment is required. All ventilation equipment must be fitted with flame and explosion proof electrical fittings.

PERSONAL PROTECTION

Inhalation AS –NZS 1715/16	The wearing of an Organic Vapour Respirator must be worn at all times during handling and application period.
Eye AS –NZS 1337	The wearing of safety glasses fitted with side shields must be worn during handling and application period. Do not wear contact lenses.
Gloves AS –NZS 2161	The wearing of Viton or PVC gloves must be worn during handling and application period.
Footwear AS –NZS 2210	The wearing of enclosed footwear must be worn during handling and application period.
Clothing AS –NZS 2919	The wearing of anti–static clothing made on natural or synthetic high temperature fibre must be worn during handling and application period.
Hearing AS –NZS 1270	Not required.
Other Requirements	Avoid contact with eyes, skin and hair. The wearing of recommended Personal Protective Equipment as described including hair protection during handling and application period.



PHYSICAL – CHEMICAL PROPERTIES

Appearance	A colourless paste with a mild odour.	
pH	Not required.	
Vapour Pressure (Butyl Acetate = 1)	Less than 1.0	
Boiling Point °C	195 °C {literature value - decomposition}	
Density	1.10 {calculated value}	
Solubility in water	Insoluble	
Flash Point °C	> 150 °C {literature value}	
Flammability Limits	Lower Explosive Limit = 0.8%	Upper Explosive Limit = 3.2 %
Auto Ignition °C	380 °C {literature value}	
Self Igniting and Explosion Risk	May cause fire. Product is not self igniting. The Self – Accelerating Decomposition Temperature is 50 °C, is an experimentally determined temperature at which the product will decompose in a self – accelerating chemical reaction.	

STABILITY and REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to avoid and Thermal Decomposition	Visible decomposition with spontaneous ignition on heating (SADT 50 °C). Avoid contact with heat, all ignition sources, flammable and combustible materials, and direct sunlight.
Hazardous decomposition products	On heating, containers will rupture and explode: contents will burn rapidly forming toxic gases including carbon dioxide, benzoic acid, phenyl benzoate benzene and biphenyl.
Incompatible materials	Incompatible with strong reducing agents, heavy metal organic compounds, alkalies, amines and strong acids.

TOXICOLOGICAL INFORMATION

Health Effects	Risk Phrase	Benzoyl Peroxide	Di Iso Butyl Phthalate
Inhalation LC₅₀ rat	20	No data available	No data available
Dermal LD₅₀ rabbit	21	No data available	No data available
Oral LD₅₀ rat	22	No data available	15000 mgm/kg

Note

Risk phrases R20/21/22 has been assigned by the EEC Council Directive 67/548/EEC.
Risk Phrases R20/21/22 – Harmful by inhalation, skin contact or if swallowed.

Acute Oral Toxicity rat	Low toxicity.
Acute Dermal Toxicity rabbit	Not Known
Acute Inhalation Toxicity rat	Not Known

OTHER TOXICOLOGICAL INFORMATION (continued)**Other Health Effects**

Inhalation	No data available.
Ingestion	May cause lung damage if swallowed.
Eyes	Irritating to the eyes, including burning sensation, redness, swelling and/or blurred vision.
Skin	May cause sensitization to the skin
Carcinogenicity	Not carcinogenic in animal studies.
Mutagenicity	Not mutagenic in animal studies
Reproductive Toxicity	No data available.

ECOLOGICAL INFORMATION

Environment	Toxic to aquatic organisms (R51). May cause long – term adverse effects in the aquatic environment (R53).
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DISPOSAL CONSIDERATIONS

Flooded the contaminated surface with plenty of water. Use clean non – sparking tools to collect all residues and place it into loosely – covered plastic containers for disposal. Remove all sources of ignition, combustible and flammable materials away. **NO SMOKING**. Keep upwind. Ensure there is always adequate ventilation at all times. Contact the Local Statutory Authorities prior of disposing the spent material. Ensure all residues do not pollute waterways, drains and other water courses.

**TRANSPORT INFORMATION**

UN number	3108		
Proper Shipping Name	ORGANIC PEROXIDE – TYPE E SOLID.		
Class	5.2	Subsidiary Risk	Not Required
Packing Group	II	Initial Emergency Response Guide	32
Emergency Procedures	3552S		
HAZCHEM	Not defined.		
IMDG	Not Known		

**REGULATORY INFORMATION**

SUSDP	Classified as a Schedule S 5 poison.
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OTHER INFORMATION**Emergency
Contact
Disclaimer****Poisons Information Centre 13 11 26****HiChem Paint Technologies
(03) 9796 3400**

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