# **BPO Powder 50%**

# **Crystalite Design**

Chemwatch: 5530-25

Version No: 4.1

Chemwatch Hazard Alert Code: 2

Issue Date: 05/04/2022 Print Date: 05/04/2022 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements S.GHS.AUS.EN

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

#### **Product Identifier** Product name BPO Powder 50% **Chemical Name** Not Applicable Synonyms Not Available Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains dicyclohexyl phthalate) Chemical formula Not Applicable Other means of identification Not Available

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Use according to manufacturer's directions.

## Details of the supplier of the safety data sheet

Registered company name	Crystalite Design	
Address	26-28 Frederick Kelly Street South West Rocks NSW 2431 Australia	
Telephone	+61 2 6566 7766	
Fax	Not Available	
Website	www.crystalite.com.au	
Email	ryan@crystalite.com.au	

### Emergency telephone number

Association / Organisation	Crystalite Design	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	02 65667766 (Mon-Fri 8am to 4pm)	+61 1800 951 288
Other emergency telephone numbers	Not Available	+61 2 9186 1132

Once connected and if the message is not in your prefered language then please dial 01

## **SECTION 2 Hazards identification**

### Classification of the substance or mixture

## HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	S5
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)			¥
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Signal word	

Warning

## Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

Very toxic to aquatic life with long lasting effects.

### Precautionary statement(s) Prevention

H410

P201	Obtain special instructions before use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing dust/fumes.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.

### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
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.
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

### Precautionary statement(s) Storage

, ()	5
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

## **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
84-61-7	<50	dicyclohexyl phthalate
94-36-0	<50	dibenzoyl peroxide
Legend:	<ol> <li>Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&amp;L: * EU IOELVs available</li> </ol>	

### **SECTION 4 First aid measures**

#### Description of first aid measures If this product comes in contact with the eyes: Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper Eye Contact and lower lids Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Inhalation Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary Transport to hospital, or doctor, without delay. If swallowed do NOT induce vomiting If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Ingestion Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

### Indication of any immediate medical attention and special treatment needed

### Treat symptomatically.

Toxic myocarditis may follow ingestion of oxidizing agents such as peroxides.

BASIC TREATMENT

Establish a patent airway with suction where necessary

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- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- $\hfill \hfill \hfill$
- Monitor and treat, where necessary, for shock.
- Anticipate seizures .
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- **DO NOT** attempt neutralisation as exothermic reaction may occur.
- Skin burns should be covered with dry, sterile bandages, following decontamination.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

## **SECTION 5 Firefighting measures**

### Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
  Carbon dioxide.
- Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is often called the "Minimum Explosible Concentration", MEC).</li> <li>When processed with flammable liquids/vapors/mists,ignitable (hybrid) mixtures may be formed with combustible dusts.</li> <li>Combustion products include: carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>Benzoyl peroxide decomposes when heated with formation of dense white toxic smoke of benzoic acid, phenyl benzoate, terphenyls, biphenyls, and carbon dioxide.</li> </ul>		
HAZCHEM	2Z		

## **SECTION 6** Accidental release measures

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Minor Spills

- Environmental hazard contain spillage.
- Remove all ignition sources
- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.
- Use dry clean up procedures and avoid generating dust.
- Place in a suitable, labelled container for waste disposal.

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Major Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> </ul>
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Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)</li> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> <li>Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>For benzoyl peroxide:</li> <li>Avoid reaction with acids, alkalis, oxidising and reducing agents, metals and metal oxides, and combustible materials.</li> <li>Amines and solutions of cobalt salts used as promoters and accelerators in polyester compounds if mixed with benzoyl peroxide will cause spontaneous decomposition (detonation).</li> <li>Alkalis cause rapid decomposition of benzoyl peroxide with generation of large volumes of carbon dioxide gas (CO2) and may pressurise containers.</li> <li>Avoid contact with copper, brass, lead and zinc.</li> <li>Confined storage of the dry chemical may lead to decomposition and explosion.</li> <li>Extremely reactive oxidiser.</li> <li>Phthalates: <ul> <li>react with strong acids, strong oxidisers, permanganates and nitrates</li> <li>attack some form of plastics</li> <li>Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous</li> <li>Peroxides decompositive controlled storage for stability.</li> </ul> </li> <li>DANGER: Explosion hazard, never mix peroxides with accelerators or promoters.</li> <li>As a class, organic peroxides are amongst the most hazardous materials commonly used in the workplace or laboratory. Several are highly flammable and extremely sensitive to shock, heat, spark, friction, impact and light and readily react with strong oxidising and reducing agents.</li> <li>Organic compounds, especially finely divided materials, can ignite on contact with concentrated peroxides.</li> <li>Strongly reduced material such as sulfides, nitrides, and hydrides may react explosively with peroxides.</li> <li>Storongly reduced material such as sulfides, nitrides, polyester or FRP resin accelerators, promoters, amines, aluminium, zinc, cast iron, copper and brass, lead, manganese, vanadium, cobalt, mercury.</li> <li>There are few chemical classes that do not at least produce heat when mixed with peroxides.</li> <li>Incidents involving interaction of active oxidants and reducing agents, either by design or acciden</li></ul>

## **SECTION 8 Exposure controls / personal protection**

## **Control parameters**

## Occupational Exposure Limits (OEL)

INGREDIENT DATA							
Source	Ingredient	Material n	ame	TWA	STEL	Peak	Notes
Australia Exposure Standards	dibenzoyl peroxide	Benzoyl p	eroxide	5 mg/m3	Not Available	Not Available	e Not Available
Emergency Limits							
Ingredient	TEEL-1		TEEL-2			TEEL-3	
dibenzoyl peroxide	15 mg/m3		1,200 mg/m3			7,000 mg/m3	
Ingredient	Original IDLH	Original IDLH			Revised IDLH		
dicyclohexyl phthalate	Not Available			Not Available			

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Ingredient	Original IDLH	Revised IDLH			
dibenzoyl peroxide	1,500 mg/m3	Not Available			
Occupational Exposure Banding					
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit			
dicyclohexyl phthalate	E ≤ 0.01 mg/m <sup>3</sup>				
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.				
Exposure controls					
Appropriate engineering controls	be highly effective in protecting workers and will typical The basic types of engineering controls are: Process controls which involve changing the way a job Enclosure and/or isolation of emission source which ke	eeps a selected hazard "physically" away from the worker and ventilation that strategically tilation can remove or dilute an air contaminant if designed properly. The design of a			
Personal protection					
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.</li> </ul>				
Skin protection	See Hand protection below				
Hands/feet protection	equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts a The selection of suitable gloves does not only depend manufacturer. Where the chemical is a preparation of s and has therefore to be checked prior to the application The exact break through time for substances has to be making a final choice. Personal hygiene is a key element of effective hand ca washed and dried thoroughly.	on the material, but also on further marks of quality which vary from manufacturer to several substances, the resistance of the glove material can not be calculated in advance			

	<ul> <li>butyl rubber.</li> <li>fluorocaoutchouc.</li> <li>polyvinyl chloride.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

## **Respiratory protection**

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

A(AII classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
 Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under

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appropriate government standards such as NIOSH (US) or CEN (EU)

 $\cdot$  Use approved positive flow mask if significant quantities of dust becomes airborne.

 $\cdot$  Try to avoid creating dust conditions.

Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both. P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles

Suitable for:

· Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.

Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.
Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

## **SECTION 9 Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance	White solid with no characteristic odour; insoluble in water			
Physical state	Solid	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Available	Decomposition temperature	+60	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	Not Available	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Available	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable	
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water	Not Available	pH as a solution (Not Available%)	Not Available	
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available	

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 Toxicological information**

## Information on toxicological effects

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Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. The inhalation of organic peroxide dusts or vapours can produce throat and lung irritation and cause an asthma-like effect. Over-exposure can cause tears, salivation, lethargy, slow breathing, breathing difficulties, headache, weakness, tremor, stupor and swelling of the lung.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of organic peroxides may produce nausea, vomiting, abnormal pain, stupor, bluish discoloration of skin and mucous membranes. Inflammation of the heart muscle may also occur. The toxicity of phthalates is not excessive due to slow oral absorption and metabolism. Absorption is affected by fat in the diet. Repeated doses can cause cumulative toxic effects, and symptoms include an enlarged liver which often reverses if exposure is maintained. Carbohydrate metabolism is disrupted, and cholesterol and triglyceride levels in the blood falls. In rats, there is also strong evidence of withering of the testicles. Some phthalates can increase the effects of antibiotics, thiamine (vitamin B1) and sulfonamides.
Skin Contact	The material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. All organic peroxides are irritating to the skin and if allowed to remain on the skin, may produce inflammation; some are allergenic. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin

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prior to the use of the material and ensure that any external damage is suitably protected.

	Evidence evide an excetical evention of each lists that	the material may cause eve irritation	in a substantial number of individuals. Prolonged eye		
Еуе	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn). Eye contact with organic peroxides can cause clouding, redness, swelling and burns of the eye on prolonged contact.				
Chronic	Long-term exposure to respiratory irritants may result Skin contact with the material is more likely to cause a Ample evidence exists, from results in experimentatio Prolonged or repeated skin contact may cause drying There has been some concern that this material can of Substance accumulation, in the human body, may occ Exposure to phthalates over years leads to pain, num in the nervous system and the balancing system. Prolonged or repeated skin contact with benzoyl pero abdominal pain, low body oxygen and severe depress itching, oozing, crusting, and scaling of the skin and a activity, it has been associated with certain tumours of	a sensitisation reaction in some perso n, that developmental disorders are d with cracking, irritation and possible of cause cancer or mutations but there is cur and may cause some concern follo bness and spasms in the hands and f xide may result in allergic skin reactio sion. Chronic effects of exposure inclu sthmatic wheezing. Although it does r	ns compared to the general population. irectly caused by human exposure to the material. dermatitis following. is not enough data to make an assessment. owing repeated or long-term occupational exposure. ieet. Many people have developed multiple disorders ins even at diluted concentrations. Ingestion results in ide allergic reactions characterised by redness, not exhibit complete carcinogenic or tumour-initiating		
	TOXICITY IRRITATION				
BPO Powder 50%	Not Available	Not Available			
	ΤΟΧΙΟΙΤΥ	IRRITATION			
dicyclohexyl phthalate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>		e effect observed (not irritating) <sup>[1]</sup>		
	Oral (Rat) LD50; >2000 mg/kg <sup>[1]</sup>		e effect observed (not irritating) <sup>[1]</sup>		
		IRRITATION			
dibenzoyl peroxide	dermal (mammal) LD50: >1000 mg/kg <sup>[2]</sup> Oral (Rat) LD50; 7710 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 Skin effects (MA	•		
			ity, very weak		
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of To.</li> </ol>	-	ained from manufacturer's SDS. Unless otherwise		
BPO Powder 50% & DICYCLOHEXYL PHTHALATE & DIBENZOYL PEROXIDE	The following information refers to contact allergens a Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imm involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for distributed can be a more important allergen than one	act eczema, more rarely as urticaria of nune reaction of the delayed type. Oth nificance of the contact allergen is not contact with it are equally important.	or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the A weakly sensitising substance which is widely		
DICYCLOHEXYL PHTHALATE	Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imn involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for distributed can be a more important allergen than one Asthma-like symptoms may continue for months or ev known as reactive airways dysfunction syndrome (RA criteria for diagnosing RADS include the absence of p asthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to sev lymphocytic inflammation, without eosinophilia. RADS the concentration of and duration of exposure to the ir result of exposure due to high concentrations of irritat DCHP can be considered to have low acute toxicity. It suggests that repeated exposure may cause increase have effects similar to female sex hormone though ma The material may produce peroxisome proliferation. P cells of animals, plants, fungi, and protozoa. Available data indicate that phthalate esters are minin weight gain, liver enlargement and induction of liver en	tact eczema, more rarely as urticaria of nune reaction of the delayed type. Oth nificance of the contact allergen is noi contact with it are equally important. <i>i</i> with stronger sensitising potential with ven years after exposure to the materi. DS) which can occur after exposure to revious airways disease in a non-atop ocumented exposure to the irritant. Oth vere bronchial hyperreactivity on meth 6 (or asthma) following an irritating inh rritating substance. On the other hand ing substance (often particles) and is a t causes minimal irritation of the skin a ad weight of the liver. Testing reveals than y times weaker. Peroxisomes are single, membrane lim nally toxic by swallowing, inhalation ar nzymes. They may also cause shrinki	or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the A weakly sensitising substance which is widely th which few individuals come into contact. al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main oic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. and eye. It may also cause wheezing. Animal testing hat DCHP is unlikely to cause genetic damage. It does nited organelles in the cytoplasm that are found in the nd skin contact. Repeated exposure may result in ng of the testicles and other structural malformations.		
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BPO Powder 50% & DICYCLOHEXYL PHTHALATE BPO Powder 50% & DICYCLOHEXYL PHTHALATE BPO Powder 50% & DIBENZOYL PEROXIDE Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation	Contact allergies quickly manifest themselves as cont eczema involves a cell-mediated (T lymphocytes) imn involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for distributed can be a more important allergen than one Asthma-like symptoms may continue for months or ev known as reactive airways dysfunction syndrome (RA criteria for diagnosing RADS include the absence of p asthma-like symptoms within minutes to hours of a dc airflow pattern on lung function tests, moderate to sev lymphocytic inflammation, without eosinophilia. RADS the concentration of and duration of exposure to the in result of exposure due to high concentrations of irritat DCHP can be considered to have low acute toxicity. It suggests that repeated exposure may cause increase have effects similar to female sex hormone though ma The material may produce peroxisome proliferation. P cells of animals, plants, fungi, and protozoa. Available data indicate that phthalate esters are minin weight gain, liver enlargement and induction of liver en They may reduce male and female fertility and number The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lim The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin. Benzoyl peroxide may cause double vision, breathing activity. It did not produce blood or biochemical advers decreased weights of testes and the newborn.	tact eczema, more rarely as urticaria of nune reaction of the delayed type. Oth inificance of the contact allergen is not contact with it are equally important. <i>J</i> with stronger sensitising potential with ven years after exposure to the materi- DS) which can occur after exposure to previous airways disease in a non-atop occumented exposure to the irritant. Oth ere bronchial hyperreactivity on meth- ing substance. On the other hand ing substance (often particles) and is to causes minimal irritation of the skin a ed weight of the liver. Testing reveals the any times weaker. Peroxisomes are single, membrane lim- nally toxic by swallowing, inhalation ar nzymes. They may also cause shrinki er of live births, according to animal tes- ited in animal testing. ed contact causing inflammation. Rep or repeated exposure and may produ- problems, excess saliva and tear form se effects, gene mutation or evidence <b>Carcinogenicity</b>	or Quincke's oedema. The pathogenesis of contact ner allergic skin reactions, e.g. contact urticaria, t simply determined by its sensitisation potential: the A weakly sensitising substance which is widely th which few individuals come into contact. al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main pic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to i, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. and eye. It may also cause wheezing. Animal testing hat DCHP is unlikely to cause genetic damage. It does nited organelles in the cytoplasm that are found in the nd skin contact. Repeated exposure may result in ng of the testicles and other structural malformations. sting.		
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egena:

Data either not available or does not fill the criteria for classification
 Data available to make classification

# **SECTION 12 Ecological information**

Version No: 4.1

	Endpoint	Test Duration (hr)	Species	Value	Source
BPO Powder 50%	Not Available	Not Available	Not Available	Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species	Value	Sourc
Provided and all dealers	NOEC(ECx)	504h	Crustacea	0.181mg/l	2
dicyclohexyl phthalate	LC50	96h	Fish	>2mg/l	2
E	EC50	72h	Algae or other aquatic plants	>2mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sour
	EC10(ECx)	504h	Crustacea	0.001mg/l	2
	LC50	96h	Fish	0.06mg/l	2
dibenzoyl peroxide			Algae or other aquatic plants	0.042mg/l	2
dibenzoyl peroxide	EC50	72h	Algae of other aquatic plants	j	

- Bioconcentration Data 8. Vendor Data

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. For benzoyl peroxide:

Benzoyl peroxide has a melting point of 104 -106 °C, vapor pressure of 0.00929 Pa, solubility of 9.1 mg/L in water at 25 C, and log Pow of 3.43 at 25 C.

Environmental Fate: For indirect photolysis in the atmosphere, the half-life is estimated to be 3 days. The substance is readily biodegradable and hydrolyses rapidly in water. The main hydrolysis product of benzoyl peroxide is benzoyl peroxide is most likely to partition to water, where it will remain.

For Transitional Phthalate Esters:

Aquatic Fate: Phthalates have no associated acute or chronic aquatic toxicity. This cut-off in acute toxicity is due to the concentration causing acute toxicity being higher than the water solubility of the phthalate ester. The same situation exists for those phthalates which are more non-polar (higher carbon number) than dihexyl phthalate. The lower molecular weight transitional phthalate sters are more water soluble than the remaining higher molecular weight transitional phthalates (dihexyl and higher) and causes acute and chronic aquatic toxicity below 1 mg/L. There is an apparent cut-off in acute toxicity at dihexyl phthalate and higher. No effects at the limit of water solubility for dihexyl phthalate and higher are predicted.

For Phthalate Esters:

Terrestrial Fate: Phthalate esters have been observed to broken down by a wide range of bacteria. Biodegradation is, therefore, expected to be the dominant fate in surface soils and sediments

Little information is available on the fate of phthalate esters in soil, even though the primary point of entry, (landfills). The migration of phthalate esters out of plastics is slow. The formation of soluble complexes may increase their mobility. Phthalate esters may also be subject to biological breakdown, however; measured degradation rates are highly variable. DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dicyclohexyl phthalate	HIGH	HIGH
dibenzoyl peroxide	LOW (Half-life = 14 days)	LOW (Half-life = 21.25 days)

### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
dicyclohexyl phthalate	HIGH (LogKOW = 6.2026)	
dibenzoyl peroxide	LOW (LogKOW = 3.46)	

### Mobility in soil

Ingredient	Mobility
dicyclohexyl phthalate	LOW (KOC = 17640)
dibenzoyl peroxide	LOW (KOC = 771)

## **SECTION 13 Disposal considerations**

Waste treatment methods			
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> </ul>		

## **SECTION 14 Transport information**

Labels Required		
Marine Pollutant		
HAZCHEM	2Z	

## Land transport (ADG)

UN number	3077		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains dicyclohexyl phthalate)		
Transport hazard class(es)	Class9SubriskNot Applicable		
Packing group	III		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions274 331 335 375 AU01Limited quantity5 kg		

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082

are not subject to this Code when transported by road or rail in; (a) packagings;(b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L).
 Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

## Air transport (ICAO-IATA / DGR)

UN number	3077			
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. * (contains dicyclohexyl phthalate)			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk	9 Not Applicable		
	ERG Code	9L		
Packing group	11			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Special provisions		A97 A158 A179 A197 A215	
	Cargo Only Packing Instructions		956	
	Cargo Only Maximum Qty / Pack		400 kg	
	Passenger and Cargo Packing Instructions		956	
	Passenger and Cargo Maximum Qty / Pack		400 kg	
	Passenger and Cargo Limited Quantity Packing Instructions		Y956	
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G	

## Sea transport (IMDG-Code / GGVSee)

UN number	3077		
UN proper shipping name	ENVIRONMENTALL	Y HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains dicyclohexyl phthalate)	
Transport hazard class(es)		9 Not Applicable	
Packing group	II		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities		

## Page 10 of 11

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
dicyclohexyl phthalate	Not Available
dibenzoyl peroxide	Not Available

## Transport in bulk in accordance with the ICG Code

Product name	Ship Type
dicyclohexyl phthalate	Not Available
dibenzoyl peroxide	Not Available
	·

### **SECTION 15 Regulatory information**

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

### dicyclohexyl phthalate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

dibenzoyl peroxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4  $\,$ 

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Chemical Footprint Project - Chemicals of High Concern List

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

## **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (dicyclohexyl phthalate; dibenzoyl peroxide)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

## **SECTION 16 Other information**

Revision Date	05/04/2022
Initial Date	24/03/2022

### SDS Version Summary

Version	Date of Update	Sections Updated
3.1	25/03/2022	Appearance, Use
4.1	05/04/2022	Name

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

end of SDS

ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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