Moon Deck Pty Ltd

Chemwatch Hazard Alert Code: 2

Issue Date: 06/10/2022 Print Date: 06/10/2022 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements S.GHS.AUS.EN.E

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

Product Identifier

Chemwatch: 5562-63

Version No: 2.1

Product name	Moon Deck BPO Hardening Powder
Chemical Name	Not Applicable
Synonyms	Pavement marking paint Catalyst
Proper shipping name	ORGANIC PEROXIDE TYPE D, SOLID
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	Pavement marking.
--------------------------	-------------------

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Moon Deck Pty Ltd
Address	3/145 Bosworth Rd Bairnsdale Vic 3875 Australia
Telephone	Not Available
Fax	Not Available
Website	www.moondeck.com.au
Email	frank@moondeck.com.au

Emergency telephone number

Association / Organisation	Frank Strini – Managing Director	
Emergency telephone numbers	1300 930 097	
Other emergency telephone numbers	Not Available	

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	S5
Classification ^[1]	Organic Peroxides Type D, 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)				
---------------------	--	--	--	--

Signal word Danger

Hazard statement(s)

.,	
H242	Heating may cause a fire.
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.
H410	Very toxic to aquatic life with long lasting effects.

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P370+P378	In case of fire: Use water jets to extinguish.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statement(s) Storage

P405	Store locked up.
P411	Store at temperatures not exceeding°C/°F.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410	Protect from sunlight.

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
94-36-0	40-50	dibenzoyl peroxide
84-61-7	40-50	dicyclohexyl phthalate
Legend:	 Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available 	

SECTION 4 First aid measures

Description of first aid measures		
Eye Contact	 If this product comes in contact with the eyes: Immediately hold the eyelids apart and flush the eye with 2% sodium carbonate solution or 5% sodium ascorbate solution then wash continuously for at least 15 minutes 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 and lower lids. Transport to hospital (or doctor) without further delay. Removal of contact lenses should only be undertaken by trained personnel. 	
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 	
Inhalation	 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. 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. 	

- Ingestion
 Ingest
 - 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.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema .
- 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

- FOR SMALL FIRE:
- Water spray, foam, CO2 or dry chemical.
- DO NOT use water jets.
- FOR LARGE FIRE:
- Flood fire area with water from a distance.

Special hazards arising from the substrate or mixture

Special nazarus ansing nom me substrate or mixture					
Fire Incompatibility	 Avoid storage with reducing agents. Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous 				
Advice for firefighters					
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. Extinguishers should be used only by trained personnel. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. If fire gets out of control withdraw personnel and warn against entry. Equipment should be thoroughly decontaminated after use. 				
Fire/Explosion Hazard	 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. 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). 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. 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 of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC). When processed with flammable liquids/vapors/mists.ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and the Minimum Ignition Energy (the minimum amount of energy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the				

HAZCHEM	1WE
	 Autoignition temperatures are often quoted for dust clouds (minimum ignition temperature (MIT)) and dust layers (layer ignition temperature (LIT)); LIT generally falls as the thickness of the layer increases. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material.
	 type. Dry dust can be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport. Build-up of electrostatic charge may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting. All movable parts coming in contact with this material should have a speed of less than 1-meter/sec. A sudden release of statically charged materials from storage or process equipment, particularly at elevated temperatures and/ or pressure, may result in ignition especially in the absence of an apparent ignition source. One important effect of the particulate nature of powders is that the surface area and surface structure (and often moisture content) can vary widely from sample to sample, depending of how the powder was manufactured and handled; this means that it is virtually impossible to use flammability data published in the literature for dusts (in contrast to that published for gases and vapours).
	 capable of damaging plant and buildings and injuring people. Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this

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. Clean up all spills immediately. No smoking, naked lights, ignition sources. Avoid all contact with any organic matter including fuel, solvents, sawdust, paper or cloth and other incompatible materials, as ignition may result. Avoid breathing dust or vapours and all contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with dry sand, earth, inert material or vermiculite. DO NOT use sawdust as fire may result. Scoop up solid residues and seal in labelled drums for disposal. Neutralise/decontaminate area.
Major Spills	 Environmental hazard - contain spillage. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). No smoking, flames or ignition sources. Increase ventilation. Contain spill with sand, earth or other clean, inert materials. NEVER use organic absorbents such as sawdust, paper, cloth; as fire may result. Avoid any contamination by organic matter. Use spark-free and explosion-proof equipment. Collect any recoverable product into labelled containers for possible recycling. DO NOT mix fresh with recovered material. Collect residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. Decontaminate equipment and launder all protective clothing before storage and re-use. If contamination of drains or waterways occurs advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling Mix only as much as is required DO NOT return the mixed material to original containers For oxidisers, including peroxides. \cdot Avoid personal contact and inhalation of dust, mist or vapours. · Provide adequate ventilation. · Always wear protective equipment and wash off any spillage from clothing. · Keep material away from light, heat, flammables or combustibles. · Keep cool, dry and away from incompatible materials. Safe handling · Avoid physical damage to containers. · DO NOT repack or return unused portions to original containers. Withdraw only sufficient amounts for immediate use. · Use only minimum quantity required. Avoid using solutions of peroxides in volatile solvents. Solvent evaporation should be controlled to avoid dangerous concentration of the peroxide. · Do NOT allow oxidisers to contact iron or compounds of iron, cobalt, or copper, metal oxide salts, acids or bases. · Do NOT use metal spatulas to handle oxidisers

	Do NOT use glass containers with screw cap lids or glass stoppers.
	Store peroxides at the lowest possible temperature, consistent with their solubility and freezing point.
	• CAUTION: Do NOT store liquids or solutions of peroxides at a temperature below that at which the oxidiser freezes or precipitates. Peroxides,
	in particular, in this form are extremely shock and heat-sensitive. Refrigerated storage of peroxides must ONLY be in explosion-proof units.
	• The hazards and consequences of fires and explosions during synthesis and use of oxidisers is widely recognised; spontaneous or induced
	decomposition may culminate in a variety of ways, ranging from moderate gassing to spontaneous ignition or explosion. The heat released from
	spontaneous decomposition of an energy-rich compound causes a rise in the surrounding temperature; the temperature will rise until thermal
	balance is established or until the material heats to decomposition,
	 The most effective means for minimising the consequences of an accident is to limit quantities to a practical minimum. Even gram-scale applications can be acting to constrain the hybriding of account of a constrained and the care about the accident scale accidence.
	explosions can be serious. Once ignited the outning of perioxides cannot be controlled and the area should be evacuated.
	concentration is rarely as high as 1% in the reaction mixture of notwards and be minded to 10% (of responsible value). For order
	• Oxidisers should be added slowly and cautiously to the reaction medium. This should be completed prior to heating and with good agitation.
	Addition oxidisers to the hot monomer is extremely dangerous. A violent reaction (e.g., fire or explosion) can result from inadvertent mixing of
	promoters (frequently used with peroxides in polymerisation systems) with full-strength oxidisers
	Organic peroxides are very sensitive to contamination (especially heavy-metal compounds, metal oxide salts, alkaline materials including
	amines, strong acids, and many varieties of dust and dirt). This can initiate rapid, uncontrolled decomposition of peroxides and possible
	generation of intense heat, fire or explosion The consequences of accidental contamination from returning withdrawn material to the storage
	container can be disastrous.
	· When handling NEVER smoke, eat or drink.
	Always wash hands with soap and water after handling.
	· Use only good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this MSDS.
	 Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some
	other oxialzing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)
	 Minimise alroome dust and eliminate all ignition sources. Keep away from heat, not surfaces, sparks, and fiame. Establish aged bausekeeping program ignition
	 Establish good housekeeping practices. Benow dust executing on a consult basis by your prior and a special prior dust elevels.
	 Remove dust accumulations on a regularibasis by vacuuming or genue sweeping to avoid creating dust clouds. It is a continuous surface at points of dust apparation to contrust and minimise the accumulation of dusts. Particular attention should be given
	 Use communication at points or dast generation to capture and minimus error duration or dusts. Faitucial attention should be given to overhead and bidden borizontal surfaces to minimise the probability of a "secondary" evolution. According to NEPA Standard 654 dust
	to overside and inducer inducer inducers to minimise the probability of a secondary explosion. According to NEEA standard 004, dust layers 1/32 in (0.8 mm) totack and a sufficient to warrant immediate cleaning of the area
	 b Do not use air to sess for cleaning
	b) Not see our sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area
	Vacuums with explosion-proof motors should be used.
	Control sources of static electricity. Dusts or their packages may accumulate static charges, and static discharge can be a source of janition.
	Solids handling systems must be designed in accordance with applicable standards (e.g. NFPA including 654 and 77) and other national
	guidance.
	Do not empty directly into flammable solvents or in the presence of flammable vapors.
	The operator, the packaging container and all equipment must be grounded with electrical bonding and grounding systems. Plastic bags and
	plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges.
	Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of
	an appropriate ignition source.
	an appropriate ignition source. Do NOT cut, drill, grind or weld such containers.
	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety outbergrading or a page.
	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.
	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area.
	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied.
	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and avay from explicit.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store below safe storage (control) temperature. Always store below 35 deg C.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or compatible materials. Store away from foodstuff containers
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from foodstuff containers Do NOT stack on wooden floors or wooden pallets.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from flammable or sor wooden pallets. Po NOT stack on wooden floors or wooden pallets. Protect containers against physical damage.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or combustible materials. Store away from foodstuff containers Do NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable materials. Store away from foodstuff containers Do NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable materials. Store away from flammable and flammage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up.
	 an appropriate ignition source. bo NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from floodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location.
	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location.
	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from incompatible materials. Store containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location.
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from incompatible materials. Store away from foodstuff containers Do NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: packages are not opened in storage area, the packages are not opened in storage area, the packages are not opened in storage area,
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location.
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store or and away from sunlight. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or combustible materials. Store away from flammable or conden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion.
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store bolw safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material light react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising spills are kept near the storage. procedures are displayed at the storage trans are provided in or near the storage area.
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from incompatible materials. Store away from incompatible materials. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: p obced at tale at 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material for absorbing and neutralising spills are kept near the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. procedures are displayed
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Store away from floors or wooden pallets. Oteck regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising spills are kept near the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and types of portable fire extinguisher are provided in or near the storage area. FOR PACKAGE STORAGE: If the material is stored in an indoor fireproof cabinet, the cabine
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from finamable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, material might react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising aptills are kept near the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and types of portable fire extinguisher are provided
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNINC: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store or and away from sunlight. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from foodstuff containers Do NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for splits and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising splits are kept near the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and hypes of portable fire extinguisher are provided in or near the storage area. FOR PACKAGE STORAGE: If the material is istored in an indoor fireproof cabinet, t
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from fimmable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from toodstuff containers Do NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spils and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material for absorbing and neutralising spills are kept near the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and types of portable fire extinguisher are provided in or near the storage area. FOR MINOR GUANTITES: FOR MINOR GUANTITES: Procedures are displayed at the storage describing actions to be taken
Other information	 an appropriate ignition source. Do NOT cut, diff, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials. Store away from odduff containers Store away from fould off or splits and leaks. Do NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for splits and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising spills are kept near the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and types of portable fire extinguisher are provided in or near the storage a
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store bolow safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flammable or combustible materials. Store away from flammable or combustible materials. Store away from flammable or so wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR NIMOR QUANTITIES: Ensure that: protect at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material inght react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising spills are kept near the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and types of portable fire extinguisher are provided in or near the storage area. Yen ActaCE STORACE: If the material is stored in an indoor freproof cab
Other information	 an appropriate ignition source. Do NOT cut, drill, grind or weld such containers. In addition ensure such additivity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. Nos moking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from sources. Store under cover and away from sources. Store under cover and away from sourcempatible materials, debris and waste. Contact may cause fire or violent reaction. Store away from floormaptible materials. Store away from foodstuff containers Do NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, material might react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising spills are kept near the storage: procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and types of potable fire exting
Other information	 an appropriate ignition source. Do NOT cut, dhill, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store below safe storage (control) temperature. Always store below 35 deg.C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from flommable or combustible materials. Bore away from flommable or combustible materials. Store away from foodstuff containers DO NOT stack on wooden floors or wooden pallets. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. Keep locked up. Restrictions may apply on quantities and to other materials permitted in the same location. POR MINOR OUANTITES Ensure that: packages are not opened in storage area. the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, materials for absorbing and neutralising spills are kep thear the storage; procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. adequate numbers and types of portable fire extinguisher are provided in or near
Other information	 an appropriate ignition source. Do NOT cut, dhil, grind or weld such containers. In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. Store in original containers in an isolated approved flammable materials storage area. Keep containers securely sealed as supplied. WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. No smoking, naked lights, heat or ignition sources. Store in der cover and away from sunlight. Store below safe storage (control) temperature. Always store below 35 deg C. Store away from flammable or combustible materials. Store away from incompatible materials. Store away from floodstuff containers Poteet containers against physical damage. Check regularly for spills and leaks. Poteet containers against physical damage. Check regularly for spills and leaks. Potex containers against physical damage. Check regularly for spills and leaks. Potex containers against physical damage. Check regularly for spills and to other materials permitted in the same location. FOR MINOR OUANTITES: Ensure that: packages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material is for absorbing and neutralising spills are kept near the storage: prockages are not opened in storage area, the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material is storage descripting actions to be taken in the event of a spill or fire. adequate numbers and types of portable fire extinguisher ar
Other information	an appropriate ignition source. • Do NOT cut, duil, grind or weld such containers. • In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. • Store in original containers in an isolated approved flammable materials storage area. • Keep containers securely sealed as supplied. • WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. • No smoking, naked lights, heat or ignition sources. • Store in a cool, dry, well vertilitated area. • Store under cover and away from sunlight. • Store below safe storage (control) temperature. Always store below 35 deg.C. • Store away from incompatible materials. • ONOT stack on wooden floors or wooden palets. • Protect containers against physical damage. • Check regularly for signils and leaks. • Observe manufacturer's storage and handling recommendations contained within this SDS. • Keep locked up. • Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITES: For that: • packages are not opened in storage area, • the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, • materials of absorbid good and trept storage does not post at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, • material for absorbid and neuralistic splosine the are broage area. FOR PACKAGE STORAGE: • If the material is stored in an indoor fireproof cabinet, the cabi
Other information	an appropriate ignition source. • Do NOT cut, drill, grind or weld such containers. • In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. • Store in original containers in an isolated approved flammable materials storage area. • Keep containers securely sealed as supplied. • WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. • No smoking, naked lights, heat or ignition sources. • Store inder cover and away from sunlight. • Store build cover of away from sunlight. • Store build cover of away from sunlight. • Store under cover and away from sunlight. • Store away from finomabile or ombustible materials, debris and waste. Contact may cause fire or violent reaction. • Store away from floodsuff containers • Do NOT stack on wooden floors or wooden pallets. • Protect containers against physical damage. • Check regularly for splits and leaks. • Observe manufacturer's storage and handling recommendations contained within this SDS. • Keep locked up. • Restrictions may paply on quantities and to other materials permitted in the same location. FOR MINOR OUANTTIES: Ensure that: • packages are not opened in storage area, • the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, • materials for absorbing and neutralising splits are kept near the storage; • procedures are displayed at the storage describing actions to be taken in the event of a spill or fire. • adequate numbers and types of portable fire extinguisher are provided in or near the storage area. FOR PACKAEE STORAGE: • If the material is stored in an indoor fireproof cabinet, the cabinet
Other information	an appropriate ignition source. • Do NOT cut, drill, grind or weld such containers. • In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit. • Store in original containers in an isolated approved flammable materials storage area. • Keep containers securely sealed as supplied. • WARNING: Gradual decomposition during storage in sealed containers may lead to a large pressure build-up and subsequent explosion. • No smoking, naked lights, heat or ignition sources. • Store under cover and away from sunlight. • Store under cover and away from sunlight. • Store under cover and away from sunlight. • Store way from incompatible materials, debris and waste. Contact may cause fire or violent reaction. • Store away from incompatible materials. • Do NOT stack on wooden floors or wooden pallets. • Protect containers against physical damage. • Check regularly for splits and leaks. • Observe manufacturer's storage and handling recommendations contained within this SDS. • Keep locked up. • Restrictions may apply on quantities and to other materials permitted in the same location. FOR MINOR QUANTITIES: Ensure that: • packages are not opened in storage area, • the goods are kept at least 3 metres from sources of heat as well as all other dangerous goods and all other materials which might react with this material might react to cause a fire, a chemical reaction or explosion, • materials to rabots and questify splits are keptioner are provided in or near the storage area. • Prockage STORAGE: • The test contake a storage describing actions to be taken in the event of a split or fire. • adequare humbers and looper dispulse there wells as

Conditions for safe storage, including any incompatibilities

Suitable container	Metal packagings meeting the test criteria of Packing Group I, must NOT be used; this avoids unnecessary confinement.
--------------------	---

	Packagings for organic peroxides must be constructed so that none of the materials, which are in contact with the contents, will catalyse or otherwise despersively effect the granetice of their contents.
	 For combination packages, cushioning materials must not be readily combustible and must NOT cause decomposition of the organic
	peroxide if leakage occurs.
	Generally only stainless steel 316, polyethylene or glass lined equipment is suitable for use when working with organic peroxides.
	 NOTE: Dangerous decomposition reactions may occur at or above the SADT (self-accelerating decomposition temperature). Under certain circumstances explosion or fire may result. Contact with incompatible substances may cause decomposition at or below the SADT. Some plastics may be incompatible with this material, check with manufacturer for storage suitability. DO NOT repack. Use containers supplied by manufacturer only. Check that containers are clearly labelled Type D Solid Organic Peroxides, UN 3106, UN 3116 are to be packed to the requirements of Packing method OP7B of the ADG Code, with maximum mass of 50 kg. Steel, Aluminium, Plastic drum / container or plastic inner receptacle in fibre-board or metal outer container.
	 Organic peroxides as a class are highly reactive. They are thermally unstable and prone to undergoing exothermic self-accelerating decomposition. Organic peroxides may decompose explosively, burn rapidly, be impact and/or friction sensitive and react dangerously with many other substances. Amines and polyester accelerators (cobalt salts, for example) if mixed with organic peroxides / organic peroxide mixtures will cause rapid /
	spontaneous decomposition with fire / explosion hazard.
	Avoid any contamination.
	Avoid finely divided combustible materials
Storage incompatibility	 Avoid all external read. Avoid mixing or reaction with acids alkalies reducing agents metal powders metal oxides transition metals and their compounds.
	 Alkalies decompose peroxides / peroxide mixtures and may generate large volumes of carbon dioxide and pressurize containers.
	Avoid contact with copper, brass and zinc (containers or stirrers, for example)
	Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous
	Peroxides decompose over time and give off oxygen.
	 Peroxides require controlled storage for stability.
	 DANGER: Explosion hazard, never mix peroxides with accelerators or promoters.
	 Avoid storage with reducing agents.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA									
Source	Ingredient Material nam		name	TWA	STEL			Peak	Notes
Australia Exposure Standards	dibenzoyl peroxide	ide Benzoyl peroxide 5 mg/m3		No	ot Available		Not Available	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 Revised IDLH								
dibenzoyl peroxide	1,500 mg/m3			Not Available					
dicyclohexyl phthalate	Not Available			Not Available					
Occupational Exposure Banding									
Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit								
dicyclohexyl phthalate	E			≤ 0.01 mg/m³					
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	 Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-desig be highly effective in protecting workers and will typically be independent of worker interactions to provide this high in the basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed p ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates a proportion will be powdered by mutual friction. Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace in air could occur, respiratory protection sl protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding. Powder handling equipment such as dust collectors, dryers and mills may require additional protection measure? Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "cap circulating air required to efficiently remove the contaminant. 	ned engineering controls car level of protection. d ventilation that strategically roperly. The design of a are relatively large, a certain ce. hould be considered. Such es such as explosion venting. ture velocities" of fresh Air Speed:

	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2.5 m/s (200- ft/min)					
	grinding, abrasive blasting, tumbling, high speed wheel ge of very high rapid air motion).	2.5-10 m/s (500-2000 ft/min)				
	Within each range the appropriate value depends on:					
	Lower end of the range					
	1: Room air currents minimal or favourable to capture					
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simp accordingly, after reference to distance from the contaminatii 4-10 m/s (800-2000 ft/min) for extraction of crusher dusts ge producing performance deficits within the extraction apparate more when extraction systems are installed or used.	ce away from the opening of a simple extraction pipe. Velo le cases). Therefore the air speed at the extraction point s ng source. The air velocity at the extraction fan, for examp nerated 2 metres distant from the extraction point. Other r us, make it essential that theoretical air velocities are mult	ocity generally decreases should be adjusted, ble, should be a minimum of nechanical considerations, iplied by factors of 10 or			
Personal protection						
Eye and face protection	 Chemical goggles. Full face shield may be required for supplementary but r Contact lenses may pose a special hazard; soft contact the wearing of lenses or restrictions on use, should be c and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily a remove contact lens as soon as practicable. Lens shoul a clean environment only after workers have washed ha national equivalent] 	never for primary protection of eyes. lenses may absorb and concentrate irritants. A written pol reated for each workplace or task. This should include a r account of injury experience. Medical and first-aid personr available. In the event of chemical exposure, begin eye irri d be removed at the first signs of eye redness or irritation nds thoroughly. [CDC NIOSH Current Intelligence Bulletin	licy document, describing eview of lens absorption nel should be trained in igation immediately and - lens should be removed in 59], [AS/NZS 1336 or			
Skin protection	See Hand protection below					
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisporequipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and we The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of severa and has therefore to be checked prior to the application. The exact break through time for substances has to be obtain making a final choice. Personal hygiene is a key element of effective hand care. Glowashed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usage ifrequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN. When prolonged or frequently repeated contact may occur, minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recomment Some glove polymer types are less affected by movement Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are Excellent when breakthrough time > 20 min Good when breakthrough time > 20 min Fair when breakthrough time > 20 min Foor when glove material degrades For general applications, gloves with a thickness typically group thickness may also vary depending on the exact compore consideration of the task requirements and knowledge of bree Glove thickness may also vary depending on the exact compore consideration of the task requirements and knowledge of bree Glove thickness may also vary depending on the exact compore consideration of the task requirements and knowledge of bree Glove thickness may also vary depending on the exact compore consideration of the task requirements and knowledge of bree Glove thickness may also var	sed individuals. Care must be taken, when removing glove atch-bands should be removed and destroyed. e material, but also on further marks of quality which vary f al substances, the resistance of the glove material can not ned from the manufacturer of the protective gloves and ha oves must only be worn on clean hands. After using glove moisturiser is recommended. e. Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent). a glove with a protection class of 5 or higher (breakthroug equivalent) is recommended. on class of 3 or higher (breakthrough time greater than 60 ded. and this should be taken into account when considering gl rated as: eater than 0.35 mm, are recommended. rily a good predictor of glove resistance to a specific cherr sition of the glove material. Therefore, glove selection sho akthrough times. ufacturer, the glove type and the glove model. Therefore, t n of the most appropriate glove for the task. varying thickness may be required for specific tasks. For e where a high degree of manual dexterity is needed. Howev e just for single use applications, then disposed of. e there is a mechanical (as well as a chemical) risk i.e. wf s, hands should be washed and dried thoroughly. Applicat ure that such footwear is protected with PVC over-shoes.	es and other protective from manufacturer to be calculated in advance as to be observed when es, hands should be gh time greater than 240 0 minutes according to EN loves for long-term use.			
Body protection	See Other protection below					

Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to
	static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	-AUS P2	-	-PAPR-AUS / Class 1 P2
up to 50 x ES	-	-AUS / Class 1 P2	-
up to 100 x ES	-	-2 P2	-PAPR-2 P2 ^

^ - Full-face

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

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	White powder with characteristic odour. White		
Physical state	Divided Solid	Relative density (Water = 1)	0.61 @20C
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	>60
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
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 Applicable	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	 Unstable in the presence of incompatible materials. Product is considered stable under normal handling conditions. Prolonged exposure to heat. Hazardous polymerisation will not occur.
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

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. 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. 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.			
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. 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 prior to the use of the material and ensure that any external damage is suitably protected.			
Eye	Evidence exists, or practical experience predicts, that the material may or contact may cause inflammation characterised by a temporary redness Eye contact with organic peroxides can cause clouding, redness, swelling	cause eye irritation in a substantial number of individuals. Prolonged eye of the conjunctiva (similar to windburn). ng and burns of the eye on prolonged contact.		
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Exposure to phthalates over years leads to pain, numbness and spasms in the hands and feet. Many people have developed multiple disorders in the nervous system and the balancing system. Prolonged or repeated skin contact with benzoyl peroxide may result in allergic skin reactions even at diluted concentrations. Ingestion results in abdominal pain, low body oxygen and severe depression. Chronic effects of exposure include allergic reactions characterised by redness, itching, oozing, crusting, and scaling of the skin and asthmatic wheezing. Although it does not exhibit complete carcinogenic or tumour-initiating activity, it has been associated with certain tumours of like papillomas and squamous cell carcinomas. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung. Persistent exposure over a long period of time to peroxides produces allergic skin reactions (redness and scaling of the skin) and asthmatic wheezing.			
Moon Deck BPO Hardening	ΤΟΧΙΟΙΤΥ	IRRITATION		
Powder	Not Available Not Available			
	тохісіту	IRRITATION		
dibenzoyl peroxide	dermal (mammal) LD50: >1000 mg/kg ^[2]	Eye (rabbit): 500 mg/24h - mild		
	Oral (Rat) LD50; 7710 mg/kg ^[2]	Skin effects (MAK): very weak		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
dicyclohexyl phthalate	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]		
	Oral (Rat) LD50; >2000 mg/kg ^[1] Skin: no adverse effect observed (not irritating) ^[1]			
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			
	The material may be irritating to the eye, with prolonged contact causing conjunctivitis. The material may cause skin irritation after prolonged or repeated exposivesicles, scaling and thickening of the skin.	g inflammation. Repeated or prolonged exposure to irritants may produce sure and may produce on contact skin redness, swelling, the production of		

DIBENZOYL PEROXIDE Benzoyl peroxide may cause double vision, breathing problems, excess saliva and tear formation, redness of the skin and changes in motor activity. It did not produce blood or biochemical adverse effects, gene mutation or evidence of cancer. Repeated oral administration may result in decreased weights of testes and the newborn. The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

....

Moon Deck BPO Hardening Powder

DIBENZOYL PEROXIDE & DICYCLOHEXYL PHTHALATE Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation	involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for distributed can be a more important allergen than one clinical point of view, substances are noteworthy if the X	Initicance of the contact allergen is no contact with it are equally important with stronger sensitising potential with produce an allergic test reaction in Carcinogenicity Reproductivity STOT - Single Exposure	A weakly sensitising substance which is widely th which few individuals come into contact. From a more than 1% of the persons tested.		
DIBENZOYL PEROXIDE & DICYCLOHEXYL PHTHALATE Acute Toxicity Skin Irritation/Corrosion	involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for distributed can be a more important allergen than one clinical point of view, substances are noteworthy if the X	Initicance of the contact allergen is no contact with it are equally important with stronger sensitising potential with y produce an allergic test reaction in Carcinogenicity Reproductivity	A weakly sensitising substance which is widely th which few individuals come into contact. From a more than 1% of the persons tested.		
DIBENZOYL PEROXIDE & DICYCLOHEXYL PHTHALATE Acute Toxicity	involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for distributed can be a more important allergen than one clinical point of view, substances are noteworthy if the	nificance of the contact allergen is no contact with it are equally important with stronger sensitising potential will by produce an allergic test reaction in Carcinogenicity	A weakly sensitising substance which is widely the which few individuals come into contact. From a more than 1% of the persons tested.		
DIBENZOYL PEROXIDE & DICYCLOHEXYL PHTHALATE	involve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for distributed can be a more important allergen than one clinical point of view, substances are noteworthy if the	nificance of the contact allergen is no contact with it are equally important. with stronger sensitising potential wit ye produce an allergic test reaction in	A weakly sensitising substance which is widely th which few individuals come into contact. From a more than 1% of the persons tested.		
	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.				
DICYCLOHEXYL PHTHALATE	known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophila. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. DCHP can be considered to have low acute toxicity. It causes minimal irritation of the skin and eye. It may also cause wheezing. Animal testing suggests that repeated exposure may cause increased weight of the liver. Testing reveals that DCHP is unlikely to cause genetic damage. It does have effects similar to female sex hormone though many times weaker. Animal testing showed minor effects on reproduction. DCHP does cause some negative developmental effects similar to other C4-C6 phthalates. The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited organelles in the cytoplasm that are found in the cells of animals, plants, fungi, and protozoa. Available data indicate that phthalate esters are minimally toxic by swallowing, inhalation and skin contact. Repeated exposure may result in weight gain, liver enlargement and induction of liver enzymes. They may also cause shrinking of the testicles and other structural malforma				

SECTION 12 Ecological information

Toxicity

	Endpoint	Endpoint Test Duration (hr) Species		Value	Source
Moon Deck BPO Hardening Powder	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC10(ECx)	504h	Crustacea	0.001mg/l	2
dibenzoyl peroxide	EC50	72h	Algae or other aquatic plants	0.042mg/l	2
	EC50	48h	Crustacea		2
	LC50	96h	Fish	0.06mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
Provided and all dealers	NOEC(ECx)	504h	Crustacea	0.181mg/l	2
dicyclonexyl phthalate	EC50	72h	Algae or other aquatic plants	>2mg/l	2
	LC50	96h	Fish	>2mg/l	2
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

Persistence and degradability

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

Bioaccumulative potential

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

Mobility in soil

Ingredient

Continued...

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

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: 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. Where possible retain label warnings and SDS and observe all notices pertaining to the product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. For small quantities of oxidising agent: Cautiously acidify a 3% solution to pH 2 with sulfuric acid. Gradually add a 50% excess of sodium bisulfite solution with stirring. Add a further 10% sodium bisulfite. If no further reaction occurs (as indicated by a rise in temperature) cautiously add more acid.

SECTION 14 Transport information

Labels Required

	5.2
Marine Pollutant	
HAZCHEM	1WE

Land transport (ADG)

UN number	3106		
UN proper shipping name	ORGANIC PEROXIDE TYPE D, SOLID		
Transport hazard class(es)	Class 5.2 Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions122 274Limited quantity500 g		

Air transport (ICAO-IATA / DGR)

UN number	3106			
UN proper shipping name	Organic peroxide type D, solid *			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	5.2 Not Applicable		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Special provisions		A20 A802	
	Cargo Only Packing Instructions		570	
	Cargo Only Maximum Qty / Pack		10 kg	
	Passenger and Cargo Packing Instructions		570	
	Passenger and Cargo Maximum Qty / Pack		5 kg	
	Passenger and Cargo Limited Quantity Packing Instructions		Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack		Forbidden	

Sea transport (IMDG-Code / GGVSee)

UN number	3106		
UN proper shipping name	ORGANIC PEROXIDE TYPE D, SOLID		
Transport hazard class(es)	IMDG Class IMDG Subrisk	5.2 Not Applicable	
Packing group	Not Applicable		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-J, S-R 122 274 500 g	

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

Product name	Group
dibenzoyl peroxide	Not Available
dicyclohexyl phthalate	Not Available

Transport in bulk in accordance with the ICG Code

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

SECTION 15 Regulatory information

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

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 $\,$

dicyclohexyl phthalate is found on the following regulatory lists

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

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)

Chemical Footprint Project - Chemicals of High Concern List

National Inventory Status

Australia - AIIC / Australia Non-Industrial UseYesCanada - NSLYesCanada - NDSLNo (dibenzoyl peroxide; dicyclohexyl phthalate)China - IECSCYesEurope - EINEC / ELINCS / NLPYesJapan - ENCSYesKorea - KECIYesNew Zealand - NZIOCYesPhilippines - PICCSYesUSA - TSCAYesIndiana - CSIYesYesYesIndiana - CSIYesYesYesIndiana - CSIYesYesYesIndiana - CSIYesYesYesIndiana - CSIYesYesYesIndiana - CSIYesYesYesNextor - NSQYesYesYesNextor - NSQYesYesYesRussia - FBEPHYesYesYesLegend:YesYesSited ingredients are ont on the inventory. These ingredients may be exemption will require registration.	National Inventory	Status
Canada - DSLYesCanada - NDSLNo (dibenzoyl peroxide; dicyclohexyl phthalate)China - IECSCYesEurope - EINEC / ELINCS / NLPYesJapan - ENCSYesKorea - KECIYesNew Zealand - NZIoCYesPhilippines - PICCSYesUSA - TSCAYesIniwan - TCSIYesMexico - INSQYesNex Co - INSQYesNeuron - NCIYesRussia - FBEPHYesLegend:YesNeuron - Marce - Marc	Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - NDSLNo (dibenzoyl peroxide; dicyclohexyl phthalate)China - IECSCYesEurope - EINEC / ELINCS / NLPYesJapan - ENCSYesKorea - KEClYesNew Zealand - NZIoCYesPhilippines - PICCSYesUSA - TSCAYesTaiwan - TCSIYesMexico - INSQYesYesNetrone - NCIYesRussia - FBEPHYesLegend:Yes - All CAS declared ingredients are on the inventory: These ingredients may be exempt or will require registration.	Canada - DSL	Yes
China - IECSCYesEurope - EINEC / ELINCS / NLPYesJapan - ENCSYesKorea - KECIYesNew Zealand - NZIoCYesPhilippines - PICCSYesUSA - TSCAYesTaiwan - TCSIYesMexico - INSQYesYesYesRussia - FBEPHYesYes = 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.	Canada - NDSL	No (dibenzoyl peroxide; dicyclohexyl phthalate)
Europe - EINEC / ELINCS / NLPYesJapan - ENCSYesKorea - KECIYesNew Zealand - NZIOCYesPhilippines - PICCSYesUSA - TSCAYesTaiwan - TCSIYesMexico - INSQYesVietnam - NCIYesRussia - FBEPHYesLegend: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.	China - IECSC	Yes
Japan - ENCSYesKorea - KECIYesNew Zealand - NZIoCYesPhilippines - PICCSYesUSA - TSCAYesTaiwan - TCSIYesMexico - INSQYesVietnam - NCIYesRussia - FBEPHYesYes = All CAS declared ingredients are on the inventory No = One or othe CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	Europe - EINEC / ELINCS / NLP	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 of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	Japan - ENCS	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 of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	Korea - KECI	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 of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	New Zealand - NZIoC	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 one of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	Philippines - PICCS	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.	USA - TSCA	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.	Taiwan - TCSI	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.	Mexico - INSQ	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.	Vietnam - NCI	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.	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	06/10/2022
Initial Date	06/10/2022

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 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

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.