RestoFinish (C/- Paint Smart Group NZ)

Chemwatch: 5676-75

Version No: 2.1 Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 Chemwatch Hazard Alert Code: 3

Issue Date: **14/08/2024** Print Date: **15/08/2024** L.GHS.NZL.EN.E

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

Product Identifier		
Product name	RESTOFINISH POLYPRIMER HARDENER - PART B	
Chemical Name	lot Applicable	
Synonyms	1-0182 / 011-0194	
Proper shipping name	ORGANIC PEROXIDE TYPE D, LIQUID	
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	Hardener for RESTO FINISH Polyprimer - Part A Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

RestoFinish (C/- Paint Smart Group NZ)	
10 Barberry Street Judea, Tauranga 3110 New Zealand	
571 8921 +61 2 4321 0339	
Not Available	
www.restofinish.com.au/ www.paintsmart.co.nz	
admin@paintsmart.co.nz	

Emergency telephone number

0,1	
Association / Organisation	RestoFinish (C/- Paint Smart Group NZ)
Emergency telephone numbers	0800 764766
Other emergency telephone numbers	111 (24/7)

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Organic Peroxides Type D, Acute Toxicity (Oral) Category 4, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 1B, Sensitisation (Skin) Category 1, Acute Toxicity (Inhalation) Category 3	
Legend: 1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No. VI		
Determined by Chemwatch using GHS/HSNO criteria	5 2U 6 1(: (inhalation) 6 1U (oral) 6 1E (aspiration) 8 2B 6 5B (contact)	

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

H242	Heating may cause a fire.	
H302	H302 Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H317	H317 May cause an allergic skin reaction.	
H331	1 Toxic if inhaled.	

Precautionary statement(s) Prevention

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.			
P260	Do not breathe mist/vapours/spray.			
P264	Wash all exposed external body areas thoroughly after handling.			
P271	Use only outdoors or in a well-ventilated area.			
P280	Wear protective gloves, protective clothing, eye protection and face protection.			
P270	Do not eat, drink or smoke when using this product.			
P272	Contaminated work clothing should not be allowed out of the workplace.			
Precautionary statement(s) Re	sponse			
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.			
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 mins from Doctor, INDUCE VOMITING (if conscious).			
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P370+P378	378 In case of fire: Use alcohol resistant foam or fine spray/water fog to extinguish.			
P302+P352	IF ON SKIN: Wash with plenty of water and soap.			

P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P363	Wash contaminated clothing before reuse.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P301+P312	1+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	

Precautionary statement(s) Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P411	Store at temperatures not exceeding°C/°F.	
P410	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
131-11-3	50-70	dimethyl phthalate
1338-23-4	20-30	methyl ethyl ketone peroxide
123-42-2	10-20	diacetone alcohol
Legend:	Legend: 1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 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 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. Eve Contact • 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. If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Skin Contact Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor. 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. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent) posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.

	This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casuality can comfortably drink. Transport to hospital or doctor without delay. Avoid giving milk or oils. Avoid giving alcohol. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

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

Fire Incompatibility	 Avoid storage with reducing agents. Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous
or firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. 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 submet of the part of fire. 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	 Will not burn but increases intensity of fire. May explode from friction, shock, heat or containment. Heating may cause expansion or decomposition leading to violent rupture of containers. Heat affected containers remain hazardous. Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition. May emit irritating, poisonous or corrosive fumes. Combustion/decomposition may produce acrid/toxic fumes of carbon monoxide (CO). Decomposes on heating and produces acrid and toxic fumes of: Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOX) other pyrolysis products typical of burning organic material. Organic peroxides provide internal oxygen for combustion, so burn intensely. Simple smothering actions are not effective against established fires. NOTE: A Type D Organic Peroxide: may partially detonate does not deflagrate rapidly and shows no violent effect when heated under confinement

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. • Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
 - Check regularly for spills and leaks. Slippery when spilt.
 - 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. 				
	Chemical Class: peroxides For release onto land: reco SORBENT			in order of ECTION	
	IYPE		00LL	Lonon	
	LAND SPILL - SMALL cross-linked polymer - pa	articulate 1	shovel	shovel	R, W, SS
	cross-linked polymer - pi			pitchfor	
	sorbent clay - particulate			shovel	
	foamed glass - pillow	2	throw	pitchfor	
	LAND SPILL - MEDIUM				
	cross-linked polymer - pa	articulate 1	blower	skiploa	bader R,W, SS
	sorbent clay - particulate	2	blower	skiploa	ader R, I, P
	polypropylene - particula			skiploa	bader W, SS, DGC
	expanded mineral - parti			skiploa	
	polypropylene - mat	4	throw	skiploa	bader DGC, RT
Major Spills	Legend DGC: Not effective where effective incinerable P: Effectiveness reduced w RT:Not effective where terr SS: Not for use within envi W: Effectiveness reduced of Reference: Sorbents for Li R.W Melvold et al: Pollutio Slippery when spilt. • Clear area of personne • Alert Fire Brigade and • May be violently or exp • Wear full body protecti • Prevent, by any means • Consider evacuation (• No smoking, flames or • Increase ventilation. • Contain spill with sand • NeVER use organic al • Avoid any contaminatii • Use spark-free and ex • Collect residues and s • Wash area and prever • Decontaminate equipo	when rainy rain is rugged ronmentally se when windy quid Hazardou n Technology F el and move up tell them locati blosively reacti ve clothing wit s available, spi or protect in pla ignition source l, earth or other posorbents such on by organic r plosion-proof e e product into h recovered ma eal in labelled at runoff into dr	nsitive sites s Substance Review No. 1 wind. on and natu ve. n breathing a lage from er ice). es. c clean, inert as sawdust natter. quipment. abelled cont aterial. drums for dis ains.	150: Nove re of haza apparatus. thering dra materials , paper, cl tainers for sposal.	es Data Corporation 1988 ard. s. rains or water course. ls. cloth; as fire may result.

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

SECTION 7 Handling and storage

Safe handling	 DO NOT USE brass or copper containers / stirrers DO NOT allow clothing wet with material to stay in contact with skin For oxidisers, including peroxides. 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. 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 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 induct decomposition may culminate in a variety of ways, ranging from moderate gassing to spontaneous ignition or explosion. The heat released

	 explosions can be serious. Once ignited the burning of peroxides cannot be controlled and the area should be evacuated. Unless there is compelling reason to do otherwise, peroxide concentration should be limited to 10% (or less with vigorous reactants). Peroxide concentration is rarely as high as 1% in the reaction mixture of polymerisation or other free-radical reactions, 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 SDS.
Other information	 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 build area away from incompatible materials, debris and waste. Contact may cause fire or violent reaction. Store away from finammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from forompatible 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. 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

	 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 dangerously affect the properties 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.
Suitable container	 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 Liquid Organic Peroxides, UN 3105, UN 3115 are to be packed to the requirements of Packing method OP7A of the ADG Code, with maximum mass of 50 kg. or 60 l. volume. Plastic drum / container or plastic inner receptacle in fibre-board, or metal outer container.
Storage incompatibility	 As a class, organic peroxides are amongst the most hazardous materials commonly used in the workplace or laboratory. Several are highly flammable and extremely sensitive to shock, heat, spark, friction, impact and light and readily react with strong oxidising and reducing agents. Organic compounds, especially finely divided materials, can ignite on contact with concentrated peroxides. Strongly reduced material such as sulfides, nitrides, and hydrides may react explosively with peroxides. Steparate from mineral acids, strong alkalis, paint driers, polyester or FRP resin accelerators, promoters, amines, aluminium, zinc, cast iron, copper and brass, lead, manganese, vanadium, cobalt, mercury. There are few chemical classes that do not at least produce heat when mixed with peroxides. Many peroxide reactions produce explosions or generate gases (toxic and nontoxic). Generally dilute solutions of peroxides are safe but the presence of a transition metal (such as cobalt, iron, manganese, nickel or vanadium) as an impurity may cause rapid decomposition with a build-up of heat, and even explosion. Solutions of peroxides often become explosive when evaporated to dryness or near-dryness. Each peroxide compound is characterised by specific, condition-dependent rate of composition. A change in conditions (e.g., increased temperature) can cause the rate of decomposition to auto-accelerate, culminating in violent explosion. Most organic peroxides (especially lower molecular weight compounds) are unstable and should not be stored at temperatures exceeding 30 degrees C - shelf life is usually inversely related to storage temperature. Lower molecular weight members of the group are unstable and prone to explode when heated or treated with organic acids. Peroxide sensitivity may be related to heat of decomposition, activation energy and reaction kinetics. Some peroxides that are usually regarded as being relatively innocuou

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Incidents involving interaction of active oxidants and reducing agents, either by design or accident, are usually very energetic and
examples of so-called redox reactions.
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 name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	' dimetrivi potralate Dimetrivipotralat		5 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	methyl ethyl ketone peroxide	Methyl ethyl ketone peroxide	Not Available	Not Available	0.2 ppm / 1.5 mg/m3	Not Available
New Zealand Workplace Exposure Standards (WES)	diacetone alcohol	Diacetone alcohol (4-Hydroxy-4- methyl- 2-pentanone)	50 ppm / 238 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3	
dimethyl phthalate	15 mg/m3	1,600 mg/m3		9300* mg/m3	
methyl ethyl ketone peroxide	1.8 ppm	20 ppm		22 ppm	
diacetone alcohol	150 ppm	350 ppm		2100* ppm	
Ingredient Original IDLH Revised IDLH					
Ingredient	Original IDLH		Revised IDLH		
dimethyl phthalate	2,000 mg/m3		Not Available		
methyl ethyl ketone peroxide	Not Available		Not Available		
diacetone alcohol	Not Available		Not Available		

MATERIAL DATA

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls
can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
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 ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a 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 usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

gineering controls	Type of Contaminant:	Air Speed:					
	solvent, vapours, degreasing etc., evaporating from tank (i	0.25-0.5 m/s (50- 100 f/min.)					
	aerosols, fumes from pouring operations, intermittent conta spray drift, plating acid fumes, pickling (released at low vel	0.5-1 m/s (100- 200 f/min.)					
	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)					
	grinding, abrasive blasting, tumbling, high speed wheel gen of very high rapid air motion).	2.5-10 m/s (500- 2000 f/min.)					
	Within each range the appropriate value depends on:						
	Lower end of the range	Upper end of the range					
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents					
	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 away from the opening of a simple avtraction pipe. Velocity generally						

Simple theory shows that all velocity fails rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction point, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment

Appropriate engin



mmended material(s)	Respiratory protection
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 fror 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 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.
Body protection	See Other protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear adely footwear or safety gumboots, e.g. Rubber When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective aquipment, to avoid all possible skin contact. Contaminated leather titems, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances. The resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact brough time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygoine is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturisor is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: ohernical resistance of glove material. glove thickness and dwaterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When only binel contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 20 minutes according to EN 374, AS/NZS 2161.1 or national equivalent). Some glove polymert types are less affected by movement and this should be taken into account when conside
Skin protection	irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protection below
Eye and face protection	 Chemical goggles. Full face shield may be required for supplementary but never for primary protection of eyes. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: RESTOFINISH POLYPRIMER HARDENER - PART B

Material	CPI
NEOPRENE	A
BUTYL	С
NATURAL RUBBER	С
NITRILE	С

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, 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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-

	C
VITON C	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Ansell Glove Selection

Glove — In order of recommendation
AlphaTec 02-100
AlphaTec® 15-554
AlphaTec® Solvex® 37-185
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® 79-700
AlphaTec® Solvex® 37-675
AlphaTec® 38-612

The suggested gloves for use should be confirmed with the glove supplier.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Information on basic physical and chemical properties			
Appearance	Appearance Clear liquid with characteristic odour; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	1.1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	7	Decomposition temperature (°C)	Not Applicable
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	11
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	188

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. Presence of shock and friction Presence of heat source and ignition source
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

up to 100 x ES A-2 P2 A-PAPR-2 P2 ^ ^ - Full-face -</td

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

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Information on toxicological effects

Inhaled	Strong evidence exists that exposure to the material may produce very serious irreversible damage (other than carcinogenesis, mutagenesis and teratogenesis) following a single exposure by inhalation. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce severe damage to the health of the individual. Relatively small amounts absorbed through the lungs may prove fatal. Diacetone alcohol is primarily a narcotic and anticonvulsive. Inhalation exposure of mice rats, rabbits and cats at 2100 ppm for 1-3 hours produced somnolence after a period of restlessness and excitability and mucous membrane irritation. Symptoms of intoxication (narcosis) are rapidly decreasing respiration, marked decrease in blood pressure, relaxation of muscles and absence of conjunctival reflexes Inhalation hazard is increased at higher temperatures. Inhalation of quantities of liquid mist may be extremely hazardous, even lethal due to spasm, extreme irritation of larynx and bronchi, chemical pneumonitis and pulmonary oedema. Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mamalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.		
Ingestion	Accidental ingestion of the material may be harmful; animal experime produce serious damage to the health of the individual. The material can produce chemical burns within the oral cavity and go Strong evidence exists that exposure to the material may produce ver and teratogenesis) following a single exposure by swallowing.		
	The material can produce chemical burns following direct contact with	n the skin.	
Skin Contact	, c	ry serious irreversible damage (other than carcinogenesis, mutagenesis al; systemic effects may result following absorption. terial ncture wounds or lesions, may produce systemic injury with harmful hat any external damage is suitably protected.	
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation. The material can produce severe chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating.		
Chronic	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis. Strong evidence exists that the substance may cause inreversible but non-lethal mutagenic effects following a single exposure. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsivenes. The latter substances are not classified as asthmagens or respiratory sensitisers Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed of liable to be exposed to a substance which may cause occupational asthma and there should be appropriate for all employees exposed or liable to be exposed to a substance of impaired fertility occurri		
RESTOFINISH POLYPRIMER	ΤΟΧΙΟΙΤΥ	IRRITATION	
HARDENER - PART B	Not Available	Not Available	
dimethyl phthalate	TOXICITY dermal (rat) LD50: >4800 mg/kg ^[2] Oral (Rat) LD50: 5120 mg/kg ^[2]	IRRITATION Eye (rabbit): 119 mg Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]	
methyl ethyl ketone peroxide	τογιατγ		
	TOXICITY Dermal (rabbit) LD50: 4000 mg/kg ^[1]	IRRITATION Eye: adverse effect observed (irritating) ^[1]	
	Inhalation (Mouse) LC50: 2.5 mg/L4h ^[2]	Eyes (rabbit) 3 mg Irritant	
	Oral (Mouse) LD50; 250 mg/kg ^[2]	Skin (rabbit) 500mg Irritant	
	Grai (Wouse) ED30, 230 Mg/kg [,] *		

		Skin: adverse effect observed (corrosive) ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: 13500 mg/kg ^[2]	Eye (human): 100 ppm/15 mins.		
	Oral (Rat) LD50: 2520 mg/kg ^[2]	Eye (rabbit): 5 mg SEVERE		
diacetone alcohol		Eye: adverse effect observed (irritating) ^[1]		
		Skin (rabbit): 500 mg open mild		
		Skin: adverse effect observed (irritating) ^[1]		
	Skin: no adverse effect observed (initiality) ^[1]			
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute specified data extracted from RTECS - Register of Toxic Effect of cher	toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise mical Substances		
DIMETHYL PHTHALATE	of persistent asthma-like symptoms within minutes to hours of a docur include a reversible airflow pattern on lung function tests, moderate to and the lack of minimal lymphocytic inflammation, without eosinophilia disorder with rates related to the concentration of and duration of expo- is a disorder that occurs as a result of exposure due to high concentra reversible after exposure ceases. The disorder is characterized by diff The material may produce peroxisome proliferation. Peroxisomes are cells of animals, plants, fungi and protozoa. Peroxisome proliferators i industrial solvents, herbicides, food flavours, leukotriene D4 antagonis demonstrated the hepatocarcinogenic effects of peroxisome proliferators carcinogens. However it is generally conceded that compounds induci except at very high doses or extreme conditions of exposure. For low molecular weight phthalate esters) Acute toxicity : Dimethyl phthalate (DMP) and diethyl phthalate (DEP exposure. Although acute oral toxicity data on DEP are based on olde doses > 5 g/kg/ day is consistent with that seen with other phthalate effects were seen in males at 1 % (-750 mg/ kg/ day) or in females at 1 following dermal administration of DMP to rabbits for 90 days at 4 g/ kg effects were seen in males at 1 % (-750 mg/ kg/ day) or in females at 0 following dermal administrations. Both DMP and DEP are negative for chr lymphoma assay in the presence but not in the absence of S9; howevi indicates a lack of genotoxic effects. Reproductive toxicity : No effects were seen in a two-generation rep adequate reproductive studies are not available for DMP, data on DEP supported by data showing that neither DEP or DMP had effects on m adverse effects on reproductive organs were reported in chronic studie with DMP, coupled with chronic toxicity studies showing no effects on for DMP. Developmental toxicity : No developmental effects have been observ. % (4.2 g/ kg) in rats.	hich can occur after exposure to high levels of highly irritating previous airways disease in a non-atopic individual, with sudden onset mented exposure to the irritant. Other criteria for diagnosis of RADS severe bronchial hyperreactivity on methacholine challenge testing, I. RADS (or asthma) following an irritating inhalation is an infrequent osure to the irritating substance. On the other hand, industrial bronchitis tions of irritating substance (often particles) and is completely iculty breathing, cough and mucus production. single, membrane limited, cytoplasmic organelles that are found in the nclude certain hypolipidaemic drugs, phthalate ester plasticisers, its and hormones. Numerous studies in rats and mice have ors, and these compounds have been unequivocally established as ing proliferation in rats and mice have little, if any, effect on human liver and subchronic studies on DEP.		
METHYL ETHYL KETONE PEROXIDE	Muscle weakness, ataxia, dyspnea, respiratory tract tumours, changes in structure/ function of the oesophagus, nausea, vomiting, gastrointestinal change, lymphoma recorded. Equivocal tumourigen by RTECS criteria. 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.			
DIACETONE ALCOHOL	Inhalation (human) TCLo: 400 ppm resp.effect No significant acute tox For diacetone alcohol (DAA):	cicological data identified in literature search.		
	Acute toxicity: Oral LD50 of diacetone alcohol is more than 4,000 mg concentration for human is 0.475 g/m3, although the reliability is not si and no detailed information. This chemical is moderately irritating to si Repeat dose toxicity: In oral rat study by an OECD combined repeat 422] at doses of 0, 30, 100, 300 and 1,000 mg/kg/day for at least 44 d knocking sounds or palpation were observed in males and females of revealed increases of deposition of hyaline droplets in the proximal tut doses of 300 and 1,000 mg/kg and dilatation of the distal tubules at dc of dilated distal tubules and fatty degeneration of the proximal tubular mg/kg. Furthermore, hepatocellular hypertrophy was evident in both si zona fasciculata in the adrenals of males receiving 1,000 mg/kg. Base considered 30 mg/kg/day. An inhalation rat study conducted for 6 hr/day, 6 day/week, 6 weeks at changes in the proximal tubules of the kidneys toxicity in males at the was considered at 1.035 g/m3 for 6 hr/day, 6 day/week. The daily intal Reproductive and developmental toxicity: In reproductive /develop significant adverse effects noted at any dose. However, the composite adverse effects such as decreased tendency in the fertility index, num mothers ability not to normally carry the litter. Therefore, a NOAEL for reproductive/developmental toxicity was considered to be 300 mg/kg/d	The because of too old study kin and irritating to eyes but there is no available data for sensitisation. ed dose and reproductive/developmental toxicity screening test [TG ays, decreased locomotor activity and less response to stimulation by the 300 and 1,000 mg/kg groups. Histopathological examination pular epithelium at doses of 100 mg/kg or more, basophilic tubules at use of 1,000 mg/kg in male kidneys. Slight but no significant increases epithelium were observed in female kidneys at doses of 300 and 1,000 exes of the 1,000 mg/kg group, and vacuolization of the cells of the ed on renal toxicity in male, NOAEL by oral administration was at doses of 0.232, 1.035 and 4.494 g/m3 demonstrated the histologic highest dose. As only liver weight was increased at mid dose, NOAEL ke is roughly calculated as 156 mg/kg/day. mental toxicity study [OECD TG 422], there were no statistically e of data at the 1,000 mg/kg suggest there may be chemically related ber of implantations, implantation index and birth index with two		

	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.		
Acute Toxicity	¥	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓ s	TOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	¥
	Le	gend: 🛛 🗙 – Data either no	t available or does not fill the criteria for classification

Data either not available or uses not
 Data available to make classification

SECTION 12 Ecological information

Not Available Test Duration (hr) 72h 72h 48h 2448h 96h 96h Test Duration (hr) 72h	Not Available Species Algae or other aquatic plants Algae or other aquatic plants Crustacea Fish Fish Algae or other aquatic plants	Not Available Value 28.4- 71mg/L 54- 96mg/l 33mg/l 11mg/l 25- 34mg/L 20.6- 45.8mg/L	Not Available 4 1 1 1 4 4 4
72h 72h 48h 2448h 96h 96h Test Duration (hr)	Algae or other aquatic plants Algae or other aquatic plants Crustacea Fish Fish Algae or other aquatic plants	28.4- 71mg/L 54- 96mg/l 33mg/l 11mg/l 25- 34mg/L 20.6- 45.8mg/L	4 1 1 4 4
72h 48h 2448h 96h 96h Test Duration (hr)	Algae or other aquatic plants Crustacea Fish Fish Algae or other aquatic plants	71mg/L 54- 96mg/l 33mg/l 11mg/l 25- 34mg/L 20.6- 45.8mg/L	1 1 1 4 4
48h Cx) 2448h 96h 96h Test Duration (hr)	Crustacea Fish Fish Algae or other aquatic plants	96mg/l 33mg/l 11mg/l 25- 34mg/L 20.6- 45.8mg/L	1 1 4 4
Cx) 2448h 96h 96h 96h Test Duration (hr)	Fish Fish Algae or other aquatic plants	11mg/l 25- 34mg/L 20.6- 45.8mg/L	1 4 4
96h 96h Test Duration (hr)	Fish Algae or other aquatic plants	25- 34mg/L 20.6- 45.8mg/L	4
96h t Test Duration (hr)	Algae or other aquatic plants	34mg/L 20.6- 45.8mg/L	4
t Test Duration (hr)		45.8mg/L	
,	Species	Value	
72h		value	Sourc
	Algae or other aquatic plants	3.2mg/l	2
48h	Crustacea	39mg/l	2
96h	Fish	44.2mg/l	2
2x) 72h	Algae or other aquatic plants	1.7mg/l	2
t Test Duration (hr)	Species	Value	Sourc
72h	Algae or other aquatic plants	>1000mg/l	2
48h	Crustacea	>1000mg/l	2
Cx) 504h	Crustacea	100mg/l	2
96h	Fish	>100mg/l	2
	t Test Duration (hr) 72h 48h Cx) 504h 96h from 1. IUCLID Toxicity Data 2. Europe E	Test Duration (hr) Species 72h Algae or other aquatic plants 48h Crustacea Cx) 504h 96h Fish from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information	Test Duration (hr) Species Value 72h Algae or other aquatic plants >1000mg/l 48h Crustacea >1000mg/l Cx) 504h Crustacea 100mg/l

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

Toxic to aquatic organisms. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dimethyl phthalate	LOW (Half-life = 14 days)	LOW (Half-life = 46.58 days)
methyl ethyl ketone peroxide	LOW (Half-life = 56 days)	LOW (Half-life = 0.38 days)
diacetone alcohol	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation		
dimethyl phthalate	LOW (BCF = 57)		
methyl ethyl ketone peroxide	LOW (LogKOW = -0.5762)		
diacetone alcohol	LOW (LogKOW = -0.3376)		

Mobility in soil

Ingredient	Mobility
dimethyl phthalate	LOW (Log KOC = 37.09)
methyl ethyl ketone peroxide	LOW (Log KOC = 10.58)

Ingredient	Mobility
diacetone alcohol	HIGH (Log KOC = 1)

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. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus. Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous

DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

"Detonation, deflagration or controlled combustion of the hazardous substance must happen under controlled conditions with no person or place exposed to

1. a blast overpressure of more than 9 kPa; or

2. an unsafe level of heat radiation."

The disposed hazardous substance must not come into contact with class 1, 2, 3 or 4 substances. Remove any ignition source from the disposal site.

SECTION 14 Transport information

Labels Required



Land transport (UN)

Lana transport (on)			
14.1. UN number or ID number	3105		
14.2. UN proper shipping name	ORGANIC PEROXIDE TYPE D, LIQUID		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	5.2 Not Applicable	
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions Limited quantity	122; 274 125 ml	

Air transport (ICAO-IATA / DGR)

14.1. UN number	3105		
14.2. UN proper shipping name	Organic peroxide type D, liquid *		
	ICAO/IATA Class	5.2	
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable	
()	ERG Code	5L	

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14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Special provisions	A20 A150 A802	
	Cargo Only Packing Instructions	570	
	Cargo Only Maximum Qty / Pack	10 L	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions	570	
	Passenger and Cargo Maximum Qty / Pack	5 L	
	Passenger and Cargo Limited Quantity Packing Instructions	Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack	Forbidden	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3105			
14.2. UN proper shipping name	ORGANIC PEROXIDE TYPE D, LIQUID			
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Haza	5.2 rd Not Applicable		
14.4. Packing group	Not Applicable			
14.5 Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions	-J , S-R 122 274 125 mL		

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

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

Product name	Group
dimethyl phthalate	Not Available
methyl ethyl ketone peroxide	Not Available
diacetone alcohol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
dimethyl phthalate	Not Available
methyl ethyl ketone peroxide	Not Available
diacetone alcohol	Not Available

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002630	Organic Peroxides Corrosive Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

dimethyl phthalate is found on the following regulatory lists

- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals
- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

methyl ethyl ketone peroxide is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals
- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals Classification Data
- New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

diacetone alcohol is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals
- New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities	Quantity (Compliance Certificate)	Quantity (Compliance Certificate - Farms >4 ha)
5.2C or 5.2D	> 10 kg		
6.1C		1000 kg or 1000 L	3500 kg or 3500 L
8.2B		250 kg or 250 L	3500 kg or 3500 L

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.1C	120	1	3	
6.5A or 6.5B	120	1	3	
8.2B	120	1	3	
5.2C or 5.2D or 5.2E or 5.2F				125 ml or 0.5 kg

Tracking Requirements

Not Applicable

National Inventory Status

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

SECTION 16 Other information

Revision Date	14/08/2024	
Initial Date	14/08/2024	
SDS Version Summary		

Version	Date of Update	Sections Updated
2.1	14/08/2024	Transport Information

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

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- 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 DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
 EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
 KECI: Korea Existing Chemicals Inventory
 NZIoC: New Zealand Inventory of Chemicals

- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory

- INSQ: Inventario Nacional de Sustancias Químicas
 NCI: National Chemical Inventory
 FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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