

HiChem Paint Technologies Pty Ltd

Chemwatch: 61-0450

Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 25/11/2015 Print Date: 12/12/2016 S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Microfill Kit
Synonyms	MF4
Proper shipping name	POLYESTER RESIN KIT
Other means of identification	Not Available

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

Relevant identified uses	The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation. MOTORSPRAY MICROFILL KIT is a light weight is 2 pack repair filler , containing microspheres. This product is used for the repair of dents, cracks and holes in automotive, marine and industrial applications.
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Details of the supplier of the safety data sheet

Registered company name	HiChem Paint Technologies Pty Ltd	
Address	73 Hallam South Road Hallam VIC 3803 Australia	
Telephone	61 3 9796 3400	
Fax	+61 3 9796 4500	
Website	www.hichem.com.au	
Email	info@hichem.com.au	

Emergency telephone number

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Association / Organisation	HiChem Paint Technologies
Emergency telephone numbers	In Australia: HiChem: +61 3 9796 3400
Other emergency telephone numbers	+800 2436 225

CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
1800 039 008	1800 039 008	+612 9186 1132

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

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	2		
Toxicity	2		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	2		3 = High
Chronic	3		4 = Extreme

Poisons Schedule	S5
Classification ^[1]	Flammable Liquid Category 3, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Reproductive Toxicity Category 1B, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - repeated exposure Category 2, Acute Aquatic Hazard Category 3

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Legend:	1. Classified by Chernwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
Label elements		
GHS label elements		
SIGNAL WORD	DANGER	
Hazard statement(s)		
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H317	May cause an allergic skin reaction.	
H360	May damage fertility or the unborn child.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H402	Harmful to aquatic life	
Precautionary statement(s) Prevention	
P201	Obtain special instructions before use.	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P271	Use in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P281	Use personal protective equipment as required.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
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.	
P362	Take off contaminated clothing and wash before reuse.	
P370+P378	n case of fire: Use water spray/fog for extinction.	
P302+P352	F ON SKIN: Wash with plenty of soap and water.	
P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P330	Rinse mouth.	

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
		component A as
14807-96-6	32-26	talc
Not Available	28-32	Polyester Resin
100-42-5	19-22	styrene
65997-17-3.	7-9	glass beads
471-34-1	6-8	calcium carbonate
		component B as
117-81-7	0.5-2	di-sec-octyl phthalate
94-36-0	0.5-2	dibenzoyl peroxide

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact If this product comes in contact with the eyes: • Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper at the seek medical attention without delay; if pain persists or recurs seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
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 necessary. Transport to hospital, or doctor, without delay. 	
Ingestion	 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 casualty can comfortably drink. Seek medical advice. 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

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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.

For acute or short term repeated exposures to styrene:

INHALATION:

- Severe exposures should have cardiac monitoring to detect arrhythmia.
- Catecholamines, especially epinephrine (adrenaline) should be used cautiously (if at all).
- Aminophylline and inhaled beta-two selective bronchodilators (e.g. salbutamol) are the drugs of choice for treatment of bronchospasm.

INGESTION:

- Ipecac syrup should be given for ingestions exceeding 3ml (styrene)/kg.
- For patients at risk of aspiration because of obtundation, intubation should precede lavage.
- Pneumonitis is a significant risk. Watch the patient closely in an upright (alert patient) or left lateral head-down position (obtunded patient) to reduce aspiration potential. [Ellenhorn and Barceloux: Medical Toxicology]

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker who has been exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
1. Mandelic acid in urine	800 mg/gm creatinine	End of shift	NS
	300 mg/gm creatinine	Prior to next shift	NS
2. Phenylglyoxylic acid in urine	240 mg/gm creatinine	End of shift	NS
	100 mg/gm creatinine	Prior to next shift	
3. Styrene in venous blood	0.55 mg/L	End of shift	SQ
	0.02 mg/L	Prior to next shift	SQ

NS: Non-specific determinant; also seen after exposure to other materials.

SQ: Semi-quantitative determinant - Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

B: Background levels occur in specimens collected from subjects NOT exposed

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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

Special hazards arising from the substrate or mixture

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. 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. 		
 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) silicon dioxide (SiO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. 		
•2YE		

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Environmental hazard - contain spillage. Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up.
Major Spills	 Collect residues in a flammable waste container. 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 breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse /absorb vapour. Contain spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. 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

Precautions for safe hand	ling
Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Avaid physical damage to containers. When handling, DO NOT eat, fink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Storage areas distances. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. In addition, for tank storages (where appropriate): Store in grounded, properly designed and approved vessels and away from incompatible materials. For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up. Storage tanks should be above ground and diked to hold entire contents. Storage tanks should be above ground and diked to hold entire contents. DO NOT overfill containers so as to maintain free head space above product. Blanketing or sparging with nitrogen or oxygen free g

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) For manufactured product having a viscosity of at least 250 cSt. (23 deg. C) Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used. Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
Storage incompatibility	 For alkyl aromatics: The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation at benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring. Following reaction with oxygen and under the influence of sunlight, a hydroperxide at the alpha-position to the aromatic ring, is the primary oxidation product formed (provided a hydrogen atom is initially available at this position) - this product is often short-lived but may be stable dependent on the nature of the aromatic substitution; a secondary C-H bond is more easily attacked than a primary C-H bond whilst a tertiary C-H bond is even more susceptible to attack by oxygen Monoalkylbenzenes may subsequently form monocarboxylic acids; alkyl naphthalenes mainly produce the corresponding naphthalene carboxylic acids. Oxidation in the presence of transition metal salts not only accelerates but also selectively decomposes the hydroperoxides. Hock-rearrangement by the influence of strong acids converts the hydroperoxides to hemiacetals. Perseters formed from the hydroperoxides undergo Criegee rearrangement easily. Alkali metals accelerate the oxidation while CO2 as co-oxidant enhances the selectivity. Microwave conditions give improved yields of the oxidation products. Photo-oxidation products may occur following reaction with hydroxyl radicals and NOx - these may be components of photochemical smogs. Oxidation of Alkylaromatics: T.S.S Rao and Shubhra Awasth: E-Journal of Chemistry Vol 4, No. 1, pp 1-13 January 2007 Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents. Aromatics can eract exothermically with bases and with diazo compounds. Contamination with polymerisation catalysts - peroxides, peroxides, persulfates, oxidising agents - also strong acids, stron

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	talc	Soapstone (respirable dust) / Talc, (containing no asbestos fibres)	3 mg/m3 / 2.5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	styrene	Styrene, monomer	213 mg/m3 / 50 ppm	426 mg/m3 / 100 ppm	Not Available	Not Available
Australia Exposure Standards	glass beads	Man-Made Vitreous (Silicate) Fibres (MMVF): Refractory Ceramic Fibres (RCF), Special Purpose Glass Fibres and High Biopersistence MMVF	0.5 f/cc / 2 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	di-sec-octyl phthalate	Di-sec-octyl phthalate	5 mg/m3	10 mg/m3	Not Available	Not Available
Australia Exposure Standards	dibenzoyl peroxide	Benzoyl peroxide	5 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
talc	Talc	6 mg/m3	66 mg/m3	400 mg/m3
styrene	Styrene	Not Available	Not Available	Not Available
glass beads	Fibrous glass; (Fiber glass; Glass frit; Synthetic vitreous fibers)	15 mg/m3	170 mg/m3	990 mg/m3
calcium carbonate	Limestone; (Calcium carbonate; Dolomite)	45 mg/m3	500 mg/m3	3,000 mg/m3
calcium carbonate	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
di-sec-octyl phthalate	Di-sec-octylphthalate	10 mg/m3	86 mg/m3	5,900 mg/m3
dibenzoyl peroxide	Benzoyl peroxide	15 mg/m3	1,200 mg/m3	7,000 mg/m3
Ingredient	Original IDLH		Revised IDLH	
talc	N.E. mg/m3 / N.E. ppm		1,000 mg/m3	
Polyester Resin	Not Available		Not Available	
styrene	5,000 ppm		700 ppm	
glass beads	Not Available		Not Available	
calcium carbonate	Not Available		Not Available	
di-sec-octyl phthalate	Unknown mg/m3 / Unknown ppm		5,000 mg/m3	
dibenzoyl peroxide	7,000 mg/m3		1,500 mg/m3	

xposure controls				
	Engineering controls are used to remove a hazard or place a barrier between the worker and the haz effective in protecting workers and will typically be independent of worker interactions to provide this h 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 "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation	high level of protection. the worker and ventilation that strategicall d properly. The design of a ventilation syste	y "adds" and em must match	
	be explosion-resistant. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, dete required to effectively remove the contaminant.	ermine the "capture velocities" of fresh cir	culating air	
	Type of Contaminant:		Air Speed:	
	solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min.)	
Appropriate engineering controls	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfer fumes, pickling (released at low velocity into zone of active generation)	s, welding, spray drift, plating acid	0.5-1 m/s (100-200 f/min.)	
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas dis rapid air motion)	charge (active generation into zone of	1-2.5 m/s (200-500 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		
Personal protection				
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irrita lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove at the first signs of eye redness or irritation - lens should be removed in a clean environment only Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 	a review of lens absorption and adsorption trained in their removal and suitable equip contact lens as soon as practicable. Lens	n for the class o oment should be should be remo	
Skin protection	See Hand protection below			
	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, whe all possible skin contact. 		quipment, to avo	
	Contaminated leather items, such as shoes, belts and watch-bands should be removed and destra The selection of suitable gloves does not only depend on the material, but also on further marks of que the chemical is a preparation of several substances, the resistance of the glove material can not be ca to the application. The exact break through time for substances has to be obtained from the manufacturer of the protectiv choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. A thoroughly. Application of a non-perfumed moisturizer is recommended.	ality which vary from manufacturer to man alculated in advance and has therefore to re gloves and has to be observed when ma	be checked prid aking a final	
Hands/feet protection	 Suitability and durability of glove type is dependent on usage. Important factors in the selection of glove frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation When prolonged or frequently repeated contact may occur, a glove with a protection minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (b EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken i Contaminated gloves should be replaced.	al equivalent). n class of 5 or higher (breakthrough time g reakthrough time greater than 60 minutes	s according to	
	For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance t	o a specific chemical, as the permeation e	efficiency of the	

	 glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
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 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.
Thermal hazards	Not Available

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 computergenerated selection:

Microfill Kit

Material	CPI
BUTYL	С
NATURAL RUBBER	С
NITRILE	С
NITRILE+PVC	C
PE/EVAL/PE	C
PVA	С
PVC	С
SARANEX-23	С
TEFLON	C
VITON	C
##di-sec-octyl	phthalate

* 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. -

Not Available

145-175

point (°C)

Initial boiling point and

boiling range (°C)

* 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Silver coloured flammable liquid with strong odour: not miscible with water. Relative density (Water = 1) Physical state Liquid 1.47 Partition coefficient Not Available Odour Not Available n-octanol / water Auto-ignition temperature Odour threshold Not Available 89 (°C) Decomposition pH (as supplied) Not Applicable Not Available temperature Melting point / freezing

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 / Class 1 P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	A-3 P2	-
100+ x ES	-	Air-line**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand 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)

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.

Not Available

Not Applicable

Viscosity (cSt)

Molecular weight (g/mol)

Flash point (°C)	32	Taste	Not Available
Evaporation rate	<1 BuAC = 1	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	6	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.1	Volatile Component (%vol)	0
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	217.8

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7	
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. 	
Possibility of hazardous reactions	be 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	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. The material may accentuate any pre-existing dermatitis condition 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. The material may cause moderate 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.
Eye	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.

	ΤΟΧΙΟΙΤΥ	IRRITATION		
Microfill Kit	Not Available	Not Available		
	тохісіту	IRRITATION		
talc	Not Available	Skin (human): 0.3 mg/3d-I mild		
	тохісіту	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100 mg/24h - moderate		
	Inhalation (rat) LC50: 11.8 mg/L/4hr ^[2]	Eye (rabbit): 100 mg/24h - moderate		
styrene	Inhalation (rat) LC50: 24 mg/L/4hr ^[2]	Skin (rabbit): 500 mg - mild		
	Inhalation (rat) LC50: 2770 ppm/4hr ^[2]	Skin (rabbit): 500 mg - mild		
	Oral (rat) LD50: 2650 mg/kg ^[2]			
	тохісіту	IRRITATION		
glass beads	Not Available	Not Available		

TOXICITY	IRRITATION		
dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 0.75 mg/24h - SEVERE		
Oral (rat) LD50: >2000 mg/kg ^[1]	Skin (rabbit): 500 mg/24h-moderate		
ΤΟΧΙΟΙΤΥ	IRRITATION		
Dermal (rabbit) LD50: 25000 mg/kg ^[2]	Eye (rabbit): 500 mg/24h mild		
Oral (rat) LD50: 30000 mg/kg ^[2]	Skin (rabbit): 500 mg/24h mild		
ΤΟΧΙΟΙΤΥ	IRRITATION		
dermal (mammal) LD50: >1000 mg/kg ^[2]	Eye (rabbit): 500 mg/24h - mild		
Oral (rat) LD50: >950 mg/kg ^[1] Skin effects (MAK): very weak			
1. Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical S	- Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified obtained substances		
	dermal (rat) LD50: >2000 mg/kg ^[1] Oral (rat) LD50: >2000 mg/kg ^[1] TOXICITY Dermal (rabbit) LD50: 25000 mg/kg ^[2] Oral (rat) LD50: 30000 mg/kg ^[2] Oral (rat) LD50: >1000 mg/kg ^[2] Oral (rat) LD50: >950 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Substances		

TALC	No significant acute toxicological data identified in literature search. The overuse of talc in nursing infants has resulted in respiratory damage causing fluid in the lungs and lung inflammation which may lead to death within hours of inhalation. Long-term exposure can also cause a variety of respiratory symptoms.			
GLASS BEADS	No data of toxicological significance identified in literature search.			
CALCIUM CARBONATE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.			
DI-SEC-OCTYL PHTHALATE	Di-sec-octyl phthalate (DEHP) in animal testing has not been shown to be acutely toxic when swallowed. Very high doses may cause reduced growth and increased liver and kidney weights. In animals, DEHP does not seem to affect fertility; however it may cause birth defects (notably of the bone) and mutations. Workers exposed to phthalate vapours have noted pain, numbness and limb spasms after years of exposure, with inflammation of nerves and poor balance. 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 malformations. They may reduce male and female fertility and number of live births, according to animal testing. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen [<i>National Toxicology Program: U.S. Dep. of Health & Human Services 2002</i>] Oral (rat) NOAEL: 28.9-36.1 mg/kg/day Gastrointestinal changes, respiratory system changes, somnolence, haemorrhage, necrotic changes in Gl tract, lowered blood pressure, liver, endocrine tumours, foetotoxicity, paternal effects, maternal effects, specific developmental abnormalities (hepatobiliary system, musculoskeletal system, cardiovascular system, urogenital system, central nervous system, eve/ear), foetolethality recorded.			
DIBENZOYL PEROXIDE	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. 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.			
TALC & CALCIUM CARBONATE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of 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. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance.			
TALC & DIBENZOYL PEROXIDE	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.			
STYRENE & CALCIUM CARBONATE & DI-SEC-OCTYL PHTHALATE & DIBENZOYL PEROXIDE	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.			
STYRENE & DI-SEC-OCTYL PHTHALATE	WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.			
DI-SEC-OCTYL PHTHALATE & DIBENZOYL PEROXIDE	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated of	or prolonged exposure to irritants may produce conjunctivitis.		
Acute Toxicity	✓ Carcinogenicity	\otimes		
Skin Irritation/Corrosion	✓ Reproductivity	✓		

Serious Eye -STOT - Single Exposure -Damage/Irritation Respiratory or Skin ~ STOT - Repeated Exposure ~ sensitisation \bigcirc \bigcirc Mutagenicity Aspiration Hazard 🗙 – Data available but does not fill the criteria for classification Legend:

Data required to make classification available

🚫 - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96	Fish	3.963mg/L	3
EC50	48	Crustacea	=4.7mg/L	1
EC50	96	Algae or other aquatic plants	=0.72mg/L	1
EC10	96	Algae or other aquatic plants	=0.13mg/L	1
NOEC	96	Algae or other aquatic plants	0.063mg/L	4
EC50	48	Crustacea	0.476mg/L	2
EC50	48	Algae or other aquatic plants	0.0217mg/L	2
NOEC	48	Crustacea	0.0032mg/L	2
LC50	96	Fish	>56000mg/L	4
EC50	72	Algae or other aquatic plants	>14mg/L	2
NOEC	72	Algae or other aquatic plants	14mg/L	2
LC50	96	Fish	0.023mg/L	3
EC50	48	Crustacea	0.133mg/L	4
EC50	96	Algae or other aquatic plants	0.002mg/L	3
BCF	24	Fish	50mg/L	4
EC60	504	Crustacea	=0.003mg/L	1
NOEC	2400	Fish	=0.005mg/L	1
LC50	96	Fish	0.0602mg/L	2
EC50	48	Crustacea	0.11mg/L	2
EC50	72	Algae or other aquatic plants	0.0422mg/L	2
EC50	72	Algae or other aquatic plants	0.0613mg/L	2
NOEC	72	Algae or other aquatic plants	0.02mg/L	2
	 LC50 EC50 EC50 EC10 NOEC EC50 EC50 LC50 LC50 LC50 EC50 	LC50 96 EC50 48 EC50 96 EC10 96 EC10 96 EC50 48 EC50 48 EC50 48 EC50 48 IC50 96 EC50 48 LC50 96 EC50 72 NOEC 72 LC50 96 EC50 48 EC50 96 EC50 96 EC50 96 EC50 96 EC50 96 EC50 96 EC60 504 NOEC 2400 LC50 96 EC50 48 EC50 48 EC50 48 EC50 48 EC50 72 EC50 72 EC50 72 EC50 72 EC50 72	LC5096FishEC5048CrustaceaEC5096Algae or other aquatic plantsEC1096Algae or other aquatic plantsNOEC96Algae or other aquatic plantsEC5048CrustaceaEC5048Algae or other aquatic plantsNOEC48CrustaceaEC5048CrustaceaLC5096FishEC5072Algae or other aquatic plantsNOEC72Algae or other aquatic plantsNOEC72Algae or other aquatic plantsLC5096FishEC5048CrustaceaLC5096FishEC5096FishEC5048CrustaceaLC5096FishEC5048CrustaceaEC5096Algae or other aquatic plantsBCF24FishEC60504CrustaceaNOEC2400FishLC5096FishLC5096FishLC5096FishLC5048CrustaceaEC5048CrustaceaEC5072Algae or other aquatic plantsEC5072Algae or other aquatic plantsEC5072 <td>LC50 96 Fish 3.963mg/L EC50 48 Crustacea =4.7mg/L EC50 96 Algae or other aquatic plants =0.72mg/L EC10 96 Algae or other aquatic plants =0.13mg/L NOEC 96 Algae or other aquatic plants =0.13mg/L NOEC 96 Algae or other aquatic plants 0.063mg/L EC50 48 Crustacea 0.476mg/L EC50 48 Crustacea 0.0217mg/L NOEC 48 Crustacea 0.0032mg/L LC50 48 Crustacea 0.0032mg/L LC50 96 Fish >56000mg/L EC50 72 Algae or other aquatic plants >14mg/L NOEC 72 Algae or other aquatic plants 14mg/L LC50 96 Fish 0.023mg/L EC50 48 Crustacea 0.133mg/L EC50 96 Algae or other aquatic plants 0.002mg/L EC50 96 Algae or other aqu</td>	LC50 96 Fish 3.963mg/L EC50 48 Crustacea =4.7mg/L EC50 96 Algae or other aquatic plants =0.72mg/L EC10 96 Algae or other aquatic plants =0.13mg/L NOEC 96 Algae or other aquatic plants =0.13mg/L NOEC 96 Algae or other aquatic plants 0.063mg/L EC50 48 Crustacea 0.476mg/L EC50 48 Crustacea 0.0217mg/L NOEC 48 Crustacea 0.0032mg/L LC50 48 Crustacea 0.0032mg/L LC50 96 Fish >56000mg/L EC50 72 Algae or other aquatic plants >14mg/L NOEC 72 Algae or other aquatic plants 14mg/L LC50 96 Fish 0.023mg/L EC50 48 Crustacea 0.133mg/L EC50 96 Algae or other aquatic plants 0.002mg/L EC50 96 Algae or other aqu

Aquatic Toxicity Data (Estimated) 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

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.

For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus. The order of most toxic to least in a study using grass shrimp and brown shrimp was dimethylnaphthalenes > methylnaphthalenes > naphthalenes. Anthrcene is a phototoxic PAH. UV light greatly increases the toxicity of anthracene to bluegill sunfish. Biological resources in strong sunlight are at more risk than those that are not. PAHs in general are more frequently associated with chronic risks. er or wate

DO NOT discharge into sev

Persistence and degradability

Legend:

Ingredient	Persistence: Water/Soil	Persistence: Air	
styrene	HIGH (Half-life = 210 days)	LOW (Half-life = 0.3 days)	
di-sec-octyl phthalate	HIGH (Half-life = 389 days)	LOW (Half-life = 1.21 days)	
dibenzoyl peroxide	LOW (Half-life = 14 days)	LOW (Half-life = 21.25 days)	

Bioaccumulative potential

Ingredient	Bioaccumulation
styrene	LOW (BCF = 77)
di-sec-octyl phthalate	HIGH (BCF = 24500)
dibenzoyl peroxide	LOW (LogKOW = 3.46)

Mobility in soil

Ingredient	Mobility
styrene	LOW (KOC = 517.8)

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	di-sec-octyl phthalate	LOW (KOC = 165400)		
	dibenzoyl peroxide	LOW (KOC = 771)		

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

	 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.				
Product / Packaging	It may be necessary to collect all wash water for treatment before disposal.				
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.				
	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. 				
	 Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material). 				
	Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.				

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	•2YE
Land transport (ADG)	
UN number	3269
UN proper shipping name	POLYESTER RESIN KIT
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Packing group	Ш
Environmental hazard	Not Applicable
Special precautions for user	Special provisions 236 Limited quantity 5 L

Air transport (ICAO-IATA / DGR)

UN number 369 UN proper shipping name Polyester resin kit Transport hazard class(se) ICAO/IATA Class 3 ICAO/IATA Subrisk Not Applicable ERG Code 3L Packing group II Environmental hazard Not Applicable Special provisions A66A163 Cargo Only Packing Iby Undaximum Ur / Pack 370 Cargo Only Maximum Ur / Pack 5 kg			
Transport hazard class(es) ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L Packing group III Environmental hazard Not Applicable Special provisions A66A163 Cargo Only Packing Instructions 370 Cargo Only Maximum Qv / Pack 5 kg	UN number	3269	
Transport hazard class(es) ICAO / IATA Subrisk Not Applicable ERG Code 3L Packing group III Environmental hazard Not Applicable Special provisions A66A163 Cargo Only Packing Instructions 370 Cargo Only Maximum Uy / Pack 5 kg	UN proper shipping name	Polyester resin kit	
Environmental hazard Not Applicable Special provisions A66A163 Cargo Only Packing Instructions 370 Cargo Only Maximum Qty / Pack 5 kg	Transport hazard class(es)	ICAO / IATA Subrisk Not Applicable	
Special provisions A66A163 Cargo Only Packing Instructions 370 Cargo Only Maximum Qty / Pack 5 kg	Packing group	Ш	
Cargo Only Packing Instructions 370 Cargo Only Maximum Qty / Pack 5 kg	Environmental hazard	Not Applicable	
Special precautions for user Passenger and Cargo Packing Instructions 370 Passenger and Cargo Maximum Qty / Pack 5 kg Passenger and Cargo Limited Quantity Packing Instructions Y370 Passenger and Cargo Limited Maximum Qty / Pack 1 kg	Special precautions for user	Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions	370 5 kg 370 5 kg Y370
Passenger and Cargo Limited Maximum Qty / Pack 1 kg		Passenger and Cargo Limited Maximum Qty / Pack	ткд

Sea transport (IMDG-Code / GGVSee)

UN number	
UN proper shipping name	

3269

Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable	
Packing group	III	
Environmental hazard	Not Applicable	
Special precautions for user	EMS NumberF-E, S-DSpecial provisions236 340Limited Quantities5 L	

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

SECTION 15 REGULATORY INFORMATION

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

TALC(14807-96-6) IS FOUND (ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
STYRENE(100-42-5) IS FOUND	O ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australia Hazardous Substances Information System - Consolidated Lists		Monographs
Australia Inventory of Chemical Substances (AICS)		International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft
GLASS BEADS(65997-17-3.) IS	FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances	Information System - Consolidated Lists	
CALCIUM CARBONATE(471-3	4-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
DI-SEC-OCTYL PHTHALATE(1	17-81-7) IS FOUND ON THE FOLLOWING REGULATORY LI	STS
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
DIBENZOYL PEROXIDE(94-36	-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Exposure Standards		International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Australia Hazardous Substances Information System - Consolidated Lists		Monographs
Australia Inventory of Chemical Substances (AICS)		International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft
National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	Y	
Canada - NDSL	N (talc; dibenzoyl peroxide; styrene; di-sec-octyl phthalate; glass	s beads)
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Υ	
Japan - ENCS	N (glass beads)	
Korea - KECI	Y	
New Zealand - NZIoC	Y	
Philippines - PICCS	Y	
USA - TSCA	Y	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the in	wentory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name CAS	SNo
calcium carbonate 471-3	-34-1, 13397-26-7, 15634-14-7, 1317-65-3, 72608-12-9, 878759-26-3, 63660-97-9, 459411-10-0, 198352-33-9, 146358-95-4

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.

end of SDS

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net 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 OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LODE Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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