ITW Polymers & Fluids

Chemwatch: 16-9665 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements

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

Product Identifier

Product name	Chemtech Shield Protectant - Vanilla		
Synonyms	Product Code: SPV		
Other means of identification	Not Available		
Relevant identified uses of the substance or mixture and uses advised against			

Relevant identified uses Vinyl protectant and rejuvenator.

Details of the supplier of the safety data sheet

Registered company name	ITW Polymers & Fluids
Address	Unit 2 / 38 Trugood Drive East Tamaki AUCKLAND 2013 New Zealand
Telephone	+64 9 272 1945
Fax	+64 9 272 1945
Website	Not Available
Email	sales@paslode.co.nz

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 1800 951 288
Other emergency telephone numbers	+61 2 9186 1132

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

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable				
Classification [1]	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A				
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI				
Label elements					
Hazard pictogram(s)					
SIGNAL WORD	WARNING				
Hazard statement(s)					
H315	Causes skin irritation.				
H319	Causes serious eye irritation.				
Precautionary statement(s) Pre	evention				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
Precautionary statement(s) Re	sponse				
P321	Specific treatment (see advice on this label).				
P362	Take off contaminated clothing and wash before reuse.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P337+P313	If eye irritation persists: Get medical advice/attention.				

Chemwatch Hazard Alert Code: 1

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Chemtech Shield Protectant - Vanilla

P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
9016-00-6	10-30	polydimethylsiloxane(s)
34590-94-8	0-9.99	dipropylene glycol monomethyl ether
57-55-6	0-9.99	propylene glycol
56-81-5	0-9.99	glycerol
Not Available	NotSpec.	ingredients determined to be non-hazardous

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 and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
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, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

None known

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Fire Incompatibility

Extinguishing media

▶ There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. 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. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk. Expansion or decomposition on heating may lead to violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke. Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) silicon dioxide (SiO2)
HAZCHEM	Not Applicable

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	 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 spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. 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	
Safe handling	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. 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. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. 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 are maintained.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.	
Storage incompatibility None known	

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	dipropylene glycol monomethyl ether	(2-Methoxymethylethoxy) propanol	50 ppm / 308 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol: particulates only	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol total: (vapour & particulates)	150 ppm / 474 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	glycerol	Glycerin mist	10 mg/m3	Not Available	Not Available	 (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
polydimethylsiloxane(s)	Dimethyl siloxane; (Dimethylpolysiloxane; Syltherm XLT; Syltherm 800; Silicone 360)	65 mg/m3	720 mg/m3	4,300 mg/m3
polydimethylsiloxane(s)	Polydimethyl siloxane; (Dimethylpolysiloxane)	6.8 mg/m3	75 mg/m3	450 mg/m3

dipropylene glycol monomethyl ether	Dipropylene glycol methyl ether		150 ppm	1700* ppm	9900** ppm
propylene glycol	Polypropylene glycols		30 mg/m3	330 mg/m3	2,000 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanediol)		30 mg/m3	1,300 mg/m3	7,900 mg/m3
glycerol	Glycerine (mist); (Glycerol; Glycerin)	Glycerine (mist); (Glycerol; Glycerin)		180 mg/m3	1,100 mg/m3
Ingredient	Original IDLH	Revised IDLH			
polydimethylsiloxane(s)	Not Available	Not Available			
dipropylene glycol monomethyl ether	600 ppm	Not Available			
propylene glycol	Not Available	Not Available			
glycerol	Not Available	Not Available			

Exposure controls

	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job activi Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilatio ventilation system must match the particular process and ch Employers may need to use multiple types of controls to pre- General exhaust is adequate under normal operating conditi essential to obtain adequate protection. Provide adequate ve workplace possess varying "escape" velocities which, in turn remove the contaminant.	a barrier between the worker and the hazard. Well-designed a independent of worker interactions to provide this high level ity or process is done to reduce the risk. Is selected hazard "physically" away from the worker and vent in can remove or dilute an air contaminant if designed proper emical or contaminant in use. Vent employee overexposure. ons. If risk of overexposure exists, wear SAA approved respi entilation in warehouse or closed storage areas. Air contamir in determine the "capture velocities" of fresh circulating air respi	engineering controls can of protection. tilation that strategically ly. The design of a irator. Correct fit is nants generated in the quired to effectively
	Type of Contaminant		Air Speed
	solvent, vapours, degreasing etc., evaporating from tank (i	in still air)	0.25-0.5 m/s (50-100 f/min)
	aerosols, fumes from pouring operations, intermittent cont drift, plating acid fumes, pickling (released at low velocity i	ainer filling, low speed conveyer transfers, welding, spray nto zone of active generation)	0.5-1 m/s (100-200 f/min.)
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min)
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	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 extraction pipe. Velocity generally of with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjust accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a 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 multifactors of 10 or more when extraction systems are installed or used.		
Personal protection			
Eye and face protection	 No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: Safety glasses with side shields. 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 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] 		
Skin protection	See Hand protection below		
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 		
Body protection	See Other protection below		
Other protection	No special equipment needed when handling small quantitie OTHERWISE: • Overalls. • Barrier cream.	\$.	

Eyewash unit.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance White water thin liquid with a vanilla odour; mixes with water.

Physical state	Liquid	Relative density (Water = 1)	~ 1.00
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	~ 8.0	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	> 100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Same as water	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	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of produ	ict		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.			
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.			
Eye	There is some evidence to suggest that this material can	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Chronic	.ong-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal nodels); nevertheless exposure by all routes should be minimised as a matter of course.			
Chemtech Shield Protectant -	TOXICITY	IRRITATION		
Vanilla	Not Available	Not Available		
	тохісіту	IRRITATION		
polydimethylsiloxane(s)	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (rabbit): 100 mg/1h - mild.		
	Oral (rat) LD50: >17000 mg/kg ^[2]			
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: 9500 mg/kg ^[2]	Eye (human): 8 mg - mild		
dipropylene glycol monomethyl ether	Oral (rat) LD50: 5130 mg/kg ^[2]	Eye (rabbit): 500 mg/24hr - mild		
,,		Skin (rabbit): 238 mg - mild		
		Skin (rabbit): 500 mg (open)-mild		

	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 11890 mg/kg ^[2]	Eye (rabbit): 100 mg - mild	
	Inhalation (rat) LC50: >44.9 mg/l/4H ^[2]	Eye (rabbit): 500 mg/24h - mild	
propylene glycol	Oral (rat) LD50: 20000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]	
		Skin(human):104 mg/3d Intermit Mod	
		Skin(human):500 mg/7days mild	
		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
glycerol	Oral (rat) LD50: >10000 mg/kg ^[2]	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute to: specified data extracted from RTECS - Register of Toxic Effect of chemic	xicity 2.* Value obtained from manufacturer's SDS. Unless otherwise ral Substances	
POLYDIMETHYLSILOXANE(S)	NOTE: Tumorigenic in rats : Neoplastic by RTECS criteria. Product subje rat-Implant Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Siloxanes may impair liver and hormonal function, as well as the lung an They may potentially cause cancer (tumours of the womb in females) and	ect to review for use in body implants Chronic exposure Carcinogenicity- r Respiration:Tumors. Endocrine:Tumors d kidney. They have not been found to be irritating to the skin and eyes. d may cause impaired fertility or infertility.	
DIPROPYLENE GLYCOL MONOMETHYL ETHER	For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (Pr ether acetate (DPMA) and tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers has shown that propy series. The common toxicities associated with the lower molecular weigh reproductive organs, the developing embryo and foetus, blood or thymus In the ethylene series, metabolism of the terminal hydroxyl group produc of the lower molecular weight homologues in the ethylene series are due Longer chain homologues in the ethylene series are not associated with through formation of an alkoxyacetic acid. The predominant alpha isome manufacture of PGEs) is a secondary alcohol incapable of forming an all alkoxypropionic acids and these are linked to birth defects (and possibly, isomeric mixture in the commercial product, and therefore PGEs show re ethers is propylene glycol, which is of low toxicity and completely metabo As a class, PGEs have low acute toxicity via swallowing, skin exposure a animal testing, while the remaining members of this category caused little Animal testing showed that repeat dosing caused few adverse effects. Ar reproductive toxicity. Commercially available PGEs have not been showr glycol ethers are unlikely to possess genetic toxicity. The material may be irritating to the eye, with prolonged contact causing conjunctivitis.	nB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl rlene glycol-based ethers are less toxic than some ethers of the ethylene it homologues of the ethylene series, such as adverse effects on the s gland, are not seen with the commercial-grade propylene glycol ethers. es and alkoxyacetic acid. The reproductive and developmental toxicities specifically to the formation of methoxyacetic and ethoxyacetic acids. reproductive toxicity, but can cause haemolysis in sensitive species, also r of all the PGEs (which is thermodynamically favoured during koxypropionic acid. In contrast, beta-isomers are able to form the haemolytic effects). The alpha isomer comprises more than 95% of the elatively little toxicity. One of the main metabolites of the propylene glycol blized in the body. and inhalation. PnB and TPM are moderately irritating to the eyes, in e or no eye irritation. None caused skin sensitization. nimal testing also shows that PGEs do not cause skin effects or n to cause birth defects. Available instance indicates that propylene inflammation. Repeated or prolonged exposure to irritants may produce	
PROPYLENE GLYCOL	generally occurs only at ploot congenerations over 1 gL, which requires extremely high intake over a relatively short period of time; this is nearly impossible with consuming foods or supplements which contain 1g/kg of PG at most. Poisonings are usually due to injection through a vein or accidental swallowing of large amounts by children. The potential for long-term oral toxicity is also low. Prolonged contact with propylene glycol is essentially non-irritating to the skin. Undiluted propylene glycol is minimally irritating to the eye, and can produce a slight, temporary inflammation of the conjunctiva. Exposure to mists may cause irritation of both the eye and the upper airway. Inhalation of propylene glycol vapours may be irritating to some individuals. It is therefore recommended that propylene glycol not be used in applications where inhalation exposure or human eye contact with the spray mists of these materials is likely, such as fogs for theatrical productions or antifrezze solutions for emergency eye wash stations. Propylene glycol is metabolized in humans to pyruvic acid, acetic acid, lactic acid and propionaldehyde; the last of which is potentially hazardous. Propylene glycol show s no evidence of causing cancer or genetic toxicity. Research has suggested that individuals who cannot tolerate propylene glycol probably experience a special form of irritation, but they only rarely develop allergic contact dermatitis. Other investigators believe that the incidence of allergic contact dermatitis in people exposed to propylene glycol may be greater than 2% in patients with eczema. One study strongly suggests a connection between airborne concentrations of propylene glycol in houses and development of asthma and allergic reactions, such as inflammation of the nose and hives, in children. Another study suggested that the concentration has been linked to use of water-based paints and water-based system cleansers. Patients with bladder inflammation and vulvodynia (chronic pain of the vulva) may be especially se		
GLYCEROL	At very high concentrations, evidence predicts that glycerol may cause tr is of low toxicity. There is no significant evidence to suggest that it cause	emor, irritation of the skin, eyes, digestive tract and airway. Otherwise it s cancer, genetic, reproductive or developmental toxicity.	
DIPROPYLENE GLYCOL MONOMETHYL ETHER & GLYCEROL	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.		
MONOMETHYL ETHER & PROPYLENE GLYCOL	The material may cause skin irritation after prolonged or repeated exposive vesicles, scaling and thickening of the skin.	ure and may produce on contact skin redness, swelling, the production of	

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: X – Data either not V – Data available	available or does not fill the criteria for classification to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Chemtech Shield Protectant - Vanilla	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
polydimethylsiloxane(s)	BCF	72	Fish	1.33mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>1-930mg/L	2
dipropylene glycol monomethyl ether	EC50	48	Crustacea	1-930mg/L	2
	EC50	72	Algae or other aquatic plants	6-999mg/L	2
	NOEC	528	Crustacea	>=0.5mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>10-mg/L	2
propylene glycol	EC50	48	Crustacea	43-500mg/L	2
	EC50	96	Algae or other aquatic plants	19-mg/L	2
	NOEC	168	Fish	11-530mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
glycerol	LC50	96	Fish	>0.011-mg/L	2
	EC50	96	Algae or other aquatic plants	77712.039mg/L	3
Legend:	Extracted from	1. IUCLID Toxicity Data 2. Europe ECI	HA Registered Substances - Ecotoxicological Inform	nation - Aquatic Toxicity 3.	EPIWIN Suite

V3.12 (QSAR) - 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

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dipropylene glycol monomethyl ether	HIGH	HIGH
propylene glycol	LOW	LOW
glycerol	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
dipropylene glycol monomethyl ether	LOW (BCF = 100)
propylene glycol	LOW (BCF = 1)
glycerol	LOW (LogKOW = -1.76)

Mobility in soil

Ingredient	Mobility
dipropylene glycol monomethyl ether	LOW (KOC = 10)
propylene glycol	HIGH (KOC = 1)
glycerol	HIGH (KOC = 1)

Waste treatment methods

	Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.
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SECTION 14 TRANSPORT INFORMATION

Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

POLYDIMETHYLSILOXANE(S) IS FOUND ON THE FOLLOWING REGULATORY LISTS
Australia Inventory of Chemical Substances (AICS)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -
Schedule 10 / Appendix C

SUSMP) - Schedule 4

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

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

PROPYLENE GLYCOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

GLYCEROL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory Status

National Inventory	Status	
Australia - AICS	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (polydimethylsiloxane(s); dipropylene glycol monomethyl ether; propylene glycol; glycerol)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	EC / ELINCS / NLP No (polydimethylsiloxane(s))	
Japan - ENCS	Yes	
Korea - KECI	CI Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	- TSCA Yes	
Taiwan - TCSI	- TCSI Yes	
Mexico - INSQ	Q Yes	
Vietnam - NCI	Yes	
Russia - ARIPS	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 and are not exempt from listing(see specific ingredients in brackets)	

Schedule 5

SECTION 16 OTHER INFORMATION

Revision Date	01/11/2019
Initial Date	12/11/2008

SDS Version Summary

Version	Issue Date	Sections Updated
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

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.

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TEL (+61 3) 9572 4700.