

#### DataDotDNA

Chemwatch: 48-3241 Version No: 4.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1

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

#### **Product Identifier**

Product name	E-Coat DD1008		
Synonyms	Not Available		
Other means of identification	Not Available		
Relevant identified uses of the substance or mixture and uses advised against			

#### Relevant identified uses Used as a clear base coating.

#### Details of the supplier of the safety data sheet

Registered company name	DataDotDNA
Address	9 / 19 Rodborough Road, Frenchs Forest NSW 2086 Australia
Telephone	(02) 8977 4900
Fax	(02) 9975 4700
Website	www.datatracedna.com
Email	kpeek@datatracedna.com

#### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	61 416 240 664
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

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

#### CHEMWATCH HAZARD RATINGS

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

Poisons Schedule	Not Applicable
Classification	Not Applicable
Label elements	
Hazard pictogram(s)	Not Applicable
SIGNAL WORD	NOT APPLICABLE

#### Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention Not Applicable

Precautionary statement(s) Response Not Applicable

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
Not Available	30-60	acrylic polymer
34590-94-8	<10	dipropylene glycol monomethyl ether
25265-77-4	<10	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate
57-55-6	<10	propylene glycol
143-22-6	<0.2	butyl alcohol propoxylated
2682-20-4	<0.002	2-methyl-4-isothiazolin-3-one
2634-33-5	<0.002	1,2-benzisothiazoline-3-one
112-34-5	<0.075	diethylene glycol monobutyl ether
886-50-0	<0.03	terbutryn
26530-20-1	<0.03	2-octyl-4-isothiazolin-3-one
9005-00-9	<0.05	polyethylene glycol (10) stearyl ether
556-67-2	<0.01	octamethylcyclotetrasiloxane
78330-21-9	<2.4	alcohols C11-14-iso-, C13-rich, ethoxylated
68186-36-7	<0.3	tridecyl alcohol, ethoxylated, phosphated, potassium salt
24938-91-8	<0.3	tridecyl alcohol, ethoxylated
7128-64-5	<0.05	2.5-bis(5-tert-butyl-2-benzoxazolyl)thiophene
2530-83-8	<1	gamma-glycidoxypropyltrimethoxysilane

### SECTION 4 FIRST AID MEASURES

### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

#### 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

Fire Incompatibility	mpatibility None known.			
Advice for firefighters				
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>			

Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>
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	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontarninate residue (see Section 13 for specific agent).</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

### SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. ۲ Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke Safe handling ÷. 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. Launder contaminated clothing before re-use. Use good occupational work practice. ÷ Observe manufacturer's storage and handling recommendations contained within this SDS. ۲ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. DO NOT allow clothing wet with material to stay in contact with skin Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Other information 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	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
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 total: (vapour & particulates)	150 ppm / 47 mg/m3	4	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
EMERGENCY LIMITS								
Ingredient	Material name			TEEL-1		TEEL	-2	TEEL-3
dipropylene glycol monomethyl ether	Dipropylene glycol methyl ether			150 ppm		1700 ppm		9900 ppm
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	Trimethyl-1,3-pentanediol monoiso	obutyrate, 2,2,4-; (Texanol)		13 mg/m3 1		140 m	g/m3	840 mg/m3
propylene glycol	Polypropylene glycols			30 mg/m3		330 m	g/m3	2,000 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanedic	DI)		30 mg/m3 1,30		1,300 ı	mg/m3	7,900 mg/m3
butyl alcohol propoxylated	Butoxypolypropylene glycol			27 mg/n	n3	300 mg	g/m3	1,800 mg/m3
diethylene glycol monobutyl ether	Butoxyethoxy)ethanol, 2-(2-; (Dieth	nylene glycol monobutyl ether)		30 ppm		33 ppn	n	200 ppm
polyethylene glycol (10) stearyl ether	Poly(oxyethylene)(2) stearyl ether			5.7 mg/i	m3	63 mg/	/m3	380 mg/m3
octamethylcyclotetrasiloxane	Octamethylcyclotetrasiloxane			30 ppm		68 ppn	n	130 ppm
gamma- glycidoxypropyltrimethoxysilane	Glycidoxypropyltrimethoxysilane; (3-(2,3-Epoxypropoxy) propyltrimethoxysilane)		)	9.3 mg/i	m3	100 m	g/m3	230 mg/m3
Ingredient	Original IDI H		Revised IDI H					
acrylic polymer	Not Available		Not Available					
dipropylene glycol monomethyl ether	600 ppm	Not Available						
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	Not Available		Not Available					
propylene glycol	Not Available		Not Available					
butyl alcohol propoxylated	Not Available		Not Available					
2-methyl-4-isothiazolin-3-one	Not Available		Not Available					
1,2-benzisothiazoline-3-one	Not Available		Not Available					
diethylene glycol monobutyl ether	Not Available	Not Available		Not Available				
terbutryn	Not Available		Not Available					
2-octyl-4-isothiazolin-3-one	Not Available	Not Available		Not Available				
polyethylene glycol (10) stearyl ether	Not Available		Not Available					
octamethylcyclotetrasiloxane	Not Available		Not Available					
alcohols C11-14-iso-, C13-rich, ethoxylated	Not Available		Not Available					
tridecyl alcohol, ethoxylated, phosphated, potassium salt	Not Available	Not Available		Not Available				
tridecyl alcohol, ethoxylated	Not Available		Not Available					
2,5-bis(5-tert-butyl- 2-benzoxazolyl)thiophene	Not Available		Not Available					
gamma-	Not Available							

MATERIAL DATA

Exposure controls

on system must risk of overexposure re adequate ess varying int.
r Speed:
25-0.5 m/s (50-100 nin)
5-1 m/s (100-200 nin.)
ris re ant r { 25 nii 5-

	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation 1-2.5 m/s (200-50 into zone of rapid air motion)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high (500-2000 f/min.)		
	Within each range the appropriate value depends on:		
	Lower and of the range	Lipper end of the range	
	1: Room air currents minimal or favourable to canture	1: Disturbing room air currents	
	2: Contaminante of low toxicity or of puicence value only	2: Contaminante of high toxicitu	•
		2. Contaminants of high toxicity	
	3: Intermittent, iow production.	3: High production, neavy 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 of square of distance from the extraction point (in simple cases). Therefore the air speed at the extra reference to distance from the contaminating source. The air velocity at the extraction fan, for exame extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechar the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of	extraction pipe. Velocity generally iction point should be adjusted, a nple, should be a minimum of 1-2 nical considerations, producing pe 10 or more when extraction syste	decreases with the ccordingly, after m/s (200-400 f/min) for erformance deficits within ems are installed or used.
Personal protection			
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. 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]</li> </ul>		
Skin protection	See Hand protection below		
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safely footwear or safety gumboots, e.g. Rubber</li> <li>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.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be wom on clean hands. After using gloves, hands should be washed and dried throroughly. Application of a non-perfumed moisturiser is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: <ul> <li>frequency and duration of contact.</li> <li>chemical resistance of glove material.</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>Kas defined in ASTM F-739-80 in any application, gloves are rated as:</li> <li>Excellent when breakthrough time &gt; 20 min</li> <li>Fair when breakthrough time &gt; 40 min</li> <li>Good when breakthrough time &gt; 20 min</li> <li>Poor when glove material greater than 0.35 mm, are recommended.</li> <li>It should be emphasized that glove thickness is not necessarily a g</li></ul>		
	recommended.		
Body protection	See Other protection below		
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eve wash unit.</li> </ul>		

GLOVE SELECTION INDEX

**Respiratory protection** 

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

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  $\ensuremath{\textit{computer-generated}}$  selection:

E-Coat DD1008

PE/EVAL/PE A	

\* 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. 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 5 x ES	A-AUS / Class 1 P3	-	A-PAPR-AUS / Class 1 P3
up to 25 x ES	Air-line*	A-2 P3	A-PAPR-2 P3
up to 50 x ES	-	A-3 P3	-
50+ x ES	-	Air-line**	-

^ - Full-face

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

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Appearance	Milky liquid with mild odour; miscible with water.		
Physical state	Liquid	Relative density (Water = 1)	1.0-1.1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	8-9	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	Not Applicable	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 Applicable	Gas group	Not Available
Solubility in water (g/L)	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	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

Inhaled	Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant 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 mammalian 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	The material has <b>NOT</b> 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. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctivitis); temporary impairment of vision and/or other transient eye damaae/ulceration may occur.		
Chronic	Limited evidence suggests that repeated or long-term occupation systems.	onal exposure may produce cumulative health effects involving organs or biochemical	
E-Coat DD1008	Not Available	Not Available	
	ΤΟΧΙCITY	IRRITATION	
acrylic polymer	Not Available	Not Available	
	ΤΟΧΙCΙΤΥ	IRRITATION	
distantidase altreel menematicul	dermal (rat) LD50: >19020 mg/kg <sup>[1]</sup>	Eye (human): 8 mg - mild	
ether	Oral (rat) LD50: 5135 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg/24hr - mild	
		Skin (rabbit): 238 mg - mild	
		Skin (rabbit): 500 mg (open)-mild	
	TOXICITY	IRRITATION	
2,2,4-trimethyl-1,3-pentanediol	Inhalation (rat) LC50: >5.325 mg/l/6h <sup>[2]</sup>	Eyes - Moderate irritant *	
monoisobutyrate	Oral (rat) LD50: 3200 mg/kg <sup>[2]</sup>	Skin - Slight irritant *	
		Skin (rabbit): mild ***	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 11890 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg - mild	
propylene glycol	Oral (rat) LD50: 20000 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg/24h - mild	
		Skin(human):104 mg/3d Intermit Mod	
		Skin(human):500 mg/7days mild	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >20000 mg/kg <sup>[2]</sup>	Not Available	
	Dermal (rabbit) LD50: 3051 mg/kg <sup>[2]</sup>		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
butyl alconol propoxylated	Inhalation (rat) LC50: 0.147 mg/l/4h** <sup>[2]</sup>		
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
	Oral (rat) LD50: >300<2000 mg/kg <sup>[1]</sup>		
	Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>		
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>		
	TOXICITY	IRRITATION	
2-methyl-4-isothiazolin-3-one	Not Available	Not Available	
	TOXICITY	IRRITATION	
1,2-benzisothiazoline-3-one	Oral (rat) LD50: 670 mg/kg <sup>[2]</sup>	Not Available	
	тохісіту	IRRITATION	
diethylene glycol monobutyl	Dermal (rabbit) LD50: 2700 mg/kg <sup>[2]</sup>	Eye (rabbit): 20 mg/24h moderate	
ether	Oral (rat) LD50: 4500 mg/kg <sup>[2]</sup>	Eye (rabbit): 5 mg - SEVERE	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
terbutryn	dermal (rat)   D50: >2000 ma/ka <sup>[2]</sup>	Eve (rabbit): 76 mg - moderate	

	Inhalation (rat) LC50: >8 mg/l/4he <sup>[2]</sup>	Skin (rabbit): 380 mg open - mild
	Oral (rat) LD50: 2045 mg/kg <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 690 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.5% non irritant
	Oral (rat) LD50: 550 mg/kg <sup>[2]</sup>	Eye (rabbit): 45% conc CORROSIVE
2-octyl-4-isothiazolin-3-one		Eye (rabbit): 5% conc moderate
		Eye(rabbit):100 mg SEVERE
		Skin (rabbit): 45% conc SEVERE
		Skin (rabbit): 500 mg/24 hours
polyethylene glycol (10) stearyl	ΤΟΧΙΟΙΤΥ	IRRITATION
ether	Oral (rat) LD50: 1900 mg/kg <sup>[2]</sup>	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: 1770 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg/24h - mild
octamethylcyclotetrasiloxane	Inhalation (rat) LC50: 36 mg/l/4Hd <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild
	Oral (rat) LD50: 1540 mg/kg <sup>[2]</sup>	
alcohole C11-14-iso- C13-rich	ΤΟΧΙΟΙΤΥ	IRRITATION
ethoxylated	Oral (rat) LD50: 500 mg/kg <sup>[2]</sup>	Not Available
tridecyl alcohol, ethoxylated,	ΤΟΧΙΟΙΤΥ	IRRITATION
phosphated, potassium salt	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
tridecyl alcohol, ethoxylated	Oral (rat) LD50: 7400 mg/kg <sup>[2]</sup>	Skin (rabbit): 2000 mg/4w mild
2,5-bis(5-tert-butyl-	ΤΟΧΙΟΙΤΥ	IRRITATION
2-benzoxazolyl)thiophene	Not Available	Not Available
gamma-	ΤΟΧΙΟΙΤΥ	IRRITATION
glycidoxypropyltrimethoxysilane	Not Available	Not Available

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

DIPROPYLENE GLYCOL MONOMETHYL ETHER	for propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether (TPN). Testing of a wide variety of propylene glycol methyl ether (TPN). Testing of a wide variety of propylene glycol ethers Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse effects on reproductive organs, the developing embryo and fetus, blood (haemolyic effects), or thymus, are not seen with the commercial-grade propylene glycol ethers. In the ethylene series, metabolism of the terninal hydroxyl group produces an alkoxyacetic acid. The reproductive and developmental toxicities of the lower molecular weight homologues in the ethylene series are a de specifically to the formation of methoxyacetic acid. The predominant alpha isomer of all the PGEs (thermodynamically favored during manufacture of PGEs) is a secondary alcohol incapable of forming an alkoxypropionic acid. In contrast beta-isomers are able to form the alkoxypropionic acids and these are linked to teratogenic effects (and possibly haemolytic effects). This alpha isomer cannot form an alkoxypropionic acid, this is the most likely reason for the lack of toxicity shown by the PGEs as distint from the lower molecular weight ethylene glycol ethers. More importantly, however, very extensive empirical test data show that this class of ommercial-grade glycol ethers presents a low toxicity hazard. PGEs, whether mono, di- or tipropylene glycol ethers is propylene glycol, which is of how toxicity and completely metabolised in the body. As a class, the propylene glycol ethers are rapidly absorbed and distributed throughout the body when introduced by inhalation or oral exposure. Dermal absorption is somewhat slower but subsequent distribution is rapid. Most exc

	Dermal repeated-dose toxicity tests have been performed for many PGEs. For PnB, no effects were seen in a 13-wk study at doses as high as 1,000 mg/kg-d. A dose of 273 mg/kg-d constituted a LOAEL (increased organ weights without histopathology) in a 13-week dermal study for DPnB. For TPM, increased kidney weights (no histopathology) and transiently decreased body weights were found at a dose of 2,895 mg/kg-d in a 90-day study in rabbits. By inhalation, no effects were observed in 2-week studies in rats at the highest tested concentrations of 3244 mg/m3 (600 ppm) for PnB and 2,010 mg/m3 (260 ppm) for DPnB. TPM caused increased liver weights without histopathology by inhalation in a 2-week study at a LOAEL of 360 mg/m3 (43 ppm). In this study, the highest tested TPM concentration, 1010 mg/m3 (120 ppm), also caused increased liver weights without accompanying histopathology. Although no repeated-dose studies are available for the oral route for TPM, or for any route for DPMA, it is anticipated that these chemicals would behave similarly to other category members. One and two-generation reproductive toxicity testing has been conducted in mice, rats, and rabbits via the oral or inhalation routes of exposure on PM and PMA. In an inhalation rat study using PM, the NOAEL for parental toxicity is 300 ppm (1106 mg/m3) with decreases in body and organ weights occurring at 3000 ppm (11058 mg/m3). For PMA, the NOAEL is 1000 ppm (3686 mg/m3), with decreased body weights occurring at 3000 ppm (11058 mg/m3). For PMA, the NOAEL for parental and offspring toxicity is 1000 mg/kg/d. in a two generation gavage study in rats. No adverse effects were found on reproductive organs, fertility rates, or other indices commonly monitored in such studies. In addition, there is no evidence from histopathological data from repeated-dose studies for the category members that would indicate that these chemicals would pose a reproductive hazard to human health. In developmental toxicity studies many PGEs have been tested by various routes of expo
2,2,4-TRIMETHYL-1,3-PENTANEDIOL	cells with DPnB. However, negative results were seen in a mouse micronucleus assay with DPnB and PM. Thus, there is no evidence to suggest these PGEs would be genotoxic <i>in vivo</i> . In a 2-year bioassay on PM, there were no statistically significant increases in tumors in rats and mice. Not a skin sensitiser (guinea pig, Magnusson-Kligman) *** Ames Test: negative *** Micronucleus, mouse: negative *** Not mutagenic *** No
MONOISOBUTYRATE	effects on fertility or foetal development seen in the rat *** * [SWIFT] ** [Eastman] *** [Perstop]
PROPYLENE GLYCOL	The acute oral toxicity of propylene glycol is very low, and large quantities are required to cause perceptible health damage in humans. Serious toxicity generally occurs only at plasma concentrations over 1 gL, which requires extremely high intake over a relatively short period of time. It would be nearly impossible to erach toxic levels by consuming foods or supplements, which contain at most 1 g/kg OPG. Cases of propylene glycol poisoning are usually related to either inappropriate intravenous administration or accidental ingestion of large quantities by children. The potential for fong-term oral toxicity is also low. Because of its tow chronic oral toxicity, propylene glycol was classified by the U. S. Food and Drug Administration as "generally recognized as afe" (GRAS) for use as a direct food additive. Prolonged contact with propylene glycol is esseniially non-irritating to the exie, and can produce slight transient conjunctivitis (the eye recovers after the exposure is removed). Exposure to mists may cause eye irritation, as well as upper respiratory tract irritation. Inhalation of the propylene glycol vapours appears to present no significant hazard in ordinary applications. However, limite human experience indicates that inhalation of propylene glycol miss could be irritating to some individuals it is therefore recommended that propylene glycol net be used in applications where inhalation exposure or human eye contact with the spray mists of these materials is likely, such as fogs for the eaterical productions or antifieze solutions for emergency eye wash stations. Propylene glycol is metabolised in the human body into pryruvic add (a normal part of the gluces-metabolism process, readily converted to energy), acetic acid (handled by ethanol-metabolism), lactic add (a normal part of the gluces-metabolism process, readily converted to energy), acetic acid dimadide by ethanol-metabolism, lactic add (a normal part of the gluces-metabolism process, readily converted to energy), acetic acid often dimadiduals
BUTYL ALCOHOL PROPOXYLATED	In general, the toxicity of the PPGs Butyl Ether decreased with increasing molecular weight; for example, PPG-40 Butyl Ether was less toxic than PPG-2 Butyl Ether. Mutagenicity data were not found on the PPGs Butyl Ether. However, an ether of molecular weight 800 Da (-PPG-13 Butyl Ether) was non-carcinogenic when fed to rats for 2 years. Because the PPGs Butyl Ethers undergo metabolic degradation; i.e., the butyl group are removed and oxidized, the PPG chains are split into random length fragments, the genotoxicity of the component chemicals, propylene glycol (PG) and n- Butyl Alcohol, were also considered. Both PG and n-Butyl Alcohol were non-mutagenic in mammalian and microbial assays. PG was non-carcinogenic in a 2-year feeding study using rats and in a lifetime dermal study using mice. These studies effectively eliminated the need for genotoxicity data on the PPG Butyl Ethers. There was concern about the irritancy potential of PPG-2 Butyl Ether. In animal irritation studies, the ingredient caused minor, transient erythema and desquamation; in addition, erythema, edema, ecchymosis, necrosis, and other changes were observed during an acute percutaneous study. PPG-2 Butyl Ether also caused minor to moderate conjunctival irritation and minor corneal injury. It was concluded that the PPG Butyl Ethers were safe for use in cosmetics when formulated to avoid irritation. The dermal LD50 of PPG-3 Butyl Ether was 2 g/kg in rats and rabbits, and the dermal LD50 of Buteth-3 in rats was 3.5 g/kg. The oral LD50 of PPG-3 Butyl Ether and of Buteth-3 in rats was 2 g/kg day, respectively. Polypropyleneglycol butyl ether had a NOAEL of 1000 mg/kg/day) was not toxic to rabbits in a 21-day dermal study; erythema, desquamation, and fissuring were observed ln short-term oral toxicity studies in rats, PPG-3 Butyl Ether had a NOAEL of 1000 mg/kg bw; polypropylene glycol butyl ethers and hypetrophy; and 1-(2-butoxy-1-methylethoxy)propa-2-ol had a increased incidence of liver and thypetrophy; and 1-(2-butoxy-1-methylethoxy)propa-2-ol

	to=3000 ppm methoxyisopropanol via inhalation for 2 yrs were 1000 ppm (based on slight body wt decreases in males and females) and 300 ppm (based on altered hepatocellular foci in males), respectively.Dermal application of propylene glycol butyl ether was not embryotoxic or teratogenic to rabbits (=100 mg/kg bw/day applied on days 7-18 of. gestation) or rats (=1.0 ml/kg bw/day applied on days 6-16 of gestation). 1-(2-Butoxy-1-methyl-ethoxy)propan-2-ol (applied on days 6-16 or 6-15 of gestation) also was not embryotoxic or teratogenic in rats. No test-article related adverse developmental or reproductive effects were observed in rats dosed by gavage with up to 1000 mg/kg Buteth-3 or 1-(2-butoxy-1-methyl-ethoxy)propan-2-ol or up to 500 mg/kg bw/day polypropylene glycol butyl ethers. In inhalation studies, exposure of rats to =1.0 mg/l air PPG-3 Methyl Ether did not have any teratogenic or reproductive effects. Exposure to 1000 and 3000 ppm methoxyisopropanol produced some adverse effects in a two-generation study in rats; adverse effects were not observed with 300 ppm. PPG-3 Butyl Ether was not genotoxic in vitro in the Ames test or in vivo in a mouse micronucleus assay. Propylene glycol butyl ether was not genotoxic in an Ames test or a mammalian chromosomal aberration assay in rat lymphocytes, andneither propylene
2-METHYL-4-ISOTHIAZOLIN-3-ONE	<b>NOTE:</b> 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. Considered to be a minor sensitiser in Kathon CG (1) (1). Bruze etal - Contact Dermatitis 20: 219-39, 1989
1,2-BENZISOTHIAZOLINE-3-ONE	Acute toxicity data show that 1,2-benzisothiazoline-3-one (BIT) is moderately toxic by the oral and dermal routes but that this chemical is a severe eye irritant. Irritation to the skin from acute data show only mild skin irritation, but repeated dermal application indicated a more significant skin irritation response. The neurotoxicity observed in the rat acute oral toxicity study (piloerection and upward curvature of the spine at 300 mg/kg and above; decreased activity, prostration, decreased abdominal muscle tone, reduced righting reflex, and decreased rate and depth of breathing at 900 mg/kg) and the acute dermal toxicity study (upward curvature of the spine was absent after day 5 post-dose at a dose of 2000 mg/kg) were felt to be at exposures in excess of those expected from the use pattern of this pesticide and that such effects would not be observed at estimated exposure doses. <b>Subchronic oral toxicity</b> studies showed systemic effects after repeated oral administration including decreased body weight, increased incidence of forestomach hyperplasia, and non-glandular stomach lesions in rats. In dogs, the effects occurred at lower doses than in rats, and included alterations in blood chemistry (decreased plasma albumin, total protein, and alanine aminotransferase) and increased food consumption, and clinical toxicity signs (audible breathing, haircoat staining of the anogenital region, dry brown material around the nasal area) as well as increased mortality. Developmental effects consisted of increases in skeletal abnormalities (extra sites of ossification of skull bones, unossified sternebrae) but not external or visceral abnormalities. <b>Reproductive toxicity</b> : In a two: generation reproduction study, parental toxicity was observed at 500 ppm and was characterized by lesions in the stomach. In pups, toxic effects were reported at 1000 ppm and consisted of preputial separation in males and impaired growth and survival in both sexes. The reproduction study did not show evidence of increased susceptibility
DIETHYLENE GLYCOL MONOBUTYL ETHER	For diethylene glycol monoalkyl ethers and their acetates: This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol hexyl ether (DGHE) and their acetates. <b>Acute toxicity:</b> There are adequate oral, inhalation and/or dermal toxicity studies on the category members. Oral LD50 values in rats for all category members are all > 3000 mg/kg bw, with values generally decreasing with increasing molecular weight. Four to eight hour acute inhalation toxicity studies were conducted for all category members except DGPE in rats at the highest vapour concentrations achievable. No Iethality was observed for any of these materials under these conditions. Dermal LD50 values in rabbits range from 2000 mg/kg bw (DGHE) to 15000 mg/kg bw (DGEEA). Signs of acute toxicity in rodents are consistent with non-specific CNS depression typical of organic solvents in general. All category members are slightly irritating to skin and slightly to moderately irritating to eyes (with the exception of DGHE, which is highly irritating to eyes). Sensitisation tests with DGEE, DGEEA, DGPE, DGBEA, DGHE and the supporting chemical DGBE ranged in duration from 30 days to 2 years. Effects predominantly included kidney and liver toxicity, absolute and/or relative changes in organ weights, and some changes in haematological parameters. All effects were seen at doses greater than 800-1000 mg/kg bw/day from oral or dermal studies; no systemic effects were observed in inhalation studies with less than continuous exposure regimens. <b>Mutagenicity:</b> DGEE, DGEEA, DGEE, DGBEA and DGHE generally tested negative for mutagenicity in <i>S. typhimurium</i> strains TA98, TA100, TA1535, TA1537 and TA1538 and DGBEA tested negative in E. coil VP2uvA, with and without metabolic activation. <i>In vitro</i> cytogenicity tests with DGEE, DGBE and DGHE in rats and mice were negative, indicating that these diethylene glycol ethers are not likely to be genotoxic. <b>Reproducti</b>
TERBUTRYN	<ul> <li>For terbutryn:</li> <li>Acute Toxicity: Terbutryn is slightly toxic. It affects the central nervous system in animals leading to incoordination, convulsions, or labored breathing. At extremely high dosages, the animals showed swelling and fluid in the lungs and central nervous system. Terbutryn is not a skin sensitiser.</li> <li>Reproductive Effects: A three generation reproduction study of rats showed that doses of 150 mg/kg/day of terbutryn caused decreased fertility indices in both male and female rats.</li> <li>Teratogenic Effects: Above doses of 500 mg/kg/day, pregnant rats produced offspring with reduced weight and reduced bone formation in the front and rear paws. Pregnant rabbits exposed to doses of 75 mg/kg/day also had offspring with reduced bone formation.</li> <li>Mutagenic Effects: In tests of terbutryn, no mutagenic effects were observed.</li> <li>Carcinogenic Effects: In a two-year feeding study of rats, doses of 150 mg/kg of terbutryn caused cancerous tumor growth. However, there is no evidence of carcinogenicity in mice. Terbutryn has been classified as a possible human carcinogen by the U.S. EPA .</li> <li>Organ Toxicity: Long-term feeding at high doses of terbutryn can cause growth retardation, kidney damage, liver damage and a decreased number of white blood cells .</li> <li>Fate in Humans and Animals: When given orally to mammals, 73 to 85% of a terbutryn dose is eliminated in metabolised form in the faeces within 24 hours</li> <li>The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council]</li> </ul>

	NOEL (90 days) for rats 600 mg/kg diet (50 mg/kg daily); (6 months) dogs 1000 mg/kg diet (10 mg/kg daily) * Toxicity Class WHO III; EPA III * ADI: 0.1 mg/kg/dav NOEL: 10 mg/kg/day
2-OCTYL-4-ISOTHIAZOLIN-3-ONE	ROHM & HAAS Data ADI: 0.03 mg/kg/day NOEL: 60 mg/kg/day
OCTAMETHYLCYCLOTETRASILOXANE	Does not cause skin sensitization Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on test data Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Based on test data Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on test data Test Type: In vitro sister chromatid exchange assay in mammalian cells Result: negative Remarks: Based on test data Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) Result: negative Remarks: Based on test data Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) Result: negative Remarks: Based on test data Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) Result: negative Remarks: Based on test data Gentoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (vapor) Result: negative Remarks: Based on test data Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects Effects on fertility : Test Type: Two-generation reproduction toxicity study Species: Rat, male and female Application Route: inhalation (vapor) Symptoms: Effects on fertility. Remarks: Based on test data Effects on fetal development : Test Type: Prenatal development toxicity study (teratogenicity) Species: Rabbit Application Route: inhalation (vapor) Symptoms: No effects on sexual function and fertility, based on animal experiments. STOT-single exposure damage to organs (Eyes, Central nervous system Routes of exposure: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less. Routes of exposure: Indeation (vapor) Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less. Results from a 2 year repeated vapor inhalation exposure study to rats of octamethylcyclotetrasiloxane
ALCOHOLS C11-14-ISO-, C13-RICH, ETHOXYLATED	The material may produce respiratory tract irritation. Symptoms of pulmonary irritation may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and a burning sensation. Unlike most organs, the lung can respond to a chemical insult or a chemical agent, by first removing or neutralising the irritant and then repairing the damage (inflammation of the lungs may be a consequence). The repair process (which initially developed to protect mammalian lungs from foreign matter and antigens) may, however, cause further damage to the lungs (fibrosis for example) when activated by hazardous chemicals. Often, this results in an impairment of gas exchange, the primary function of the lungs. Therefore prolonged exposure to respiratory irritants may cause sustained breathing difficulties.
	* Ashland SDS
TRIDECYL ALCOHOL, ETHOXYLATED, PHOSPHATED, POTASSIUM SALT	<ul> <li>for alloy lackhol alkovylete phosphate (AAPD) suffactants (alky) or alcohol ether phosphates):</li> <li>Acute toxicity: This grup of variactants exhibits similar effects to the alcohol ether suffates (AAASDs) (typically sodum lauryl ether suffate alcohol ether suffate):</li> <li>LES - CAS RN (8891-30-3).</li> <li>They are likely to be skin eye initiants (R36/38) in their undiluted forms but not acutely toxic. The reported oral LD50 values were higher than 1600 mg/kg for the alkyl ether phosphates family described by CAS RN: 5046-01-9. No effects were tound at any concentration tested dermally. Commercial produces may contain excess phosphoric acid and may produce serious eye initiation (R41) or may even be classified as corrosive, acidic substances.</li> <li>Subchronic toxicity: CDate for sulfate derivatives has been identified in the public domain. Subchronic 21-day repeat dose detary studies showed bw toxicity of to 480 mg/kg/ds, similar to a NACEL [for an 36-04.21 / 41 and C13-15 with sodum or ammonium allyl ethoxylites with POE (polyxogethylene) n-s. One study indicated that C16-18 POE n=16 Rud comparable kow toxicity. No-observed-adverse=effect levels (NACEL) for argent ma paproximately 50 mg/kg/d (acuted based on dose of 1000 ppm in del. Effects were usually related to hepatic hypertrophy, increased liver weight, and related increases in haematological endpoints related to liver enzyme induction.</li> <li>SLES was evaluated for effects on the reproduction and prenatal/postnatial development of the rule when administered coallay is the dinking water through two sciences/secreter level (NACEL) for systemic effects was 0.14, which was 86.6 mg/kg/day for the PQ generation, and 146 gm/kg/day for the 12 generation. The NACEL of 86.6 mg/kg/day was selected as the toxicology endpoint for the chronic risk assessment for the sulfate eqrivalues.</li> <li>Carcinogenicity: Acutol atter phosphates are unlikely to be genotoxico y analogy with their C12-41 MOZEL of 86.8 mg/kg/day was</li></ul>

	compounds by patch testing.
GAMMA- GLYCIDOXYPROPYLTRIMETHOXYSILANE	The railwoysilanes: Low molecular weight alkoxysilanes (including alky orthosilicates) are a known concern for lung toxicity, due to inhalation of vapours or aerosols causing irreversible lung damage at low doses. Alkoxysilane groups that rapidly hydrolyse when in contact with water, result in metabolites that may only cause mild skin irritation. Although there appears to be signs of irritation under different test conditions, based on the available information, the alkoxysilanes cannot be readily classified as a skin irritant. The trimethoxysilane group of chemicals have previously been associated with occupational eye irritation in exposed workers who experienced severe inflammation of the comea. Based on the collective information, these substances are likely to be severe irritants to the eyes. Methoxysilanes are generally reported to possess higher reactivity and toxicity compared to ethoxysilanes; some methoxysilanes appear to be carcinogenic. In the US, alkoxysilanes with alkoxy groups greater than C2 are classified as moderate concern. Based on available information on methoxysilanes, the possibility that this family causes shis insensitisation cannot be ruled out. Amine-functional methoxysilanes have previously been implicated as a cause of occupational contact dermatitis, often as a result of repeated skin exposure with workers involved in the manufacture or use of the resins containing the chemical during fibreglass production. For gamma-glycicdopropyltrimethoxysilane (GPTMS) GPTMS is subject to rapid hydrolysis, and the observed toxicity is expected to be due primarily to methanol and silanetriols. GPTMS has been tested for acute toxicity by the oral, demal, and inhalation routes of exposure. Reported acute oral LD50s in rats range from 7010 to 16900 mg/kg bw and > 5 ml/kg bw to 22.6 ml/kg bw. The d-hour inhalation LC50 was greater than 2.7 mg/L in one study and greater than 5.3 mg/L in another study. GPTMS is mildly iritating to the skin and eyes and is not a known skin sensitiseri
ACRYLIC POLYMER & 2-METHYL- 4-ISOTHIAZOLIN-3-ONE & TRIDECYL ALCOHOL, ETHOXYLATED, PHOSPHATED, POTASSIUM SALT &	developmental toxicity were also at the highest dose tested (1000 mg/kg bw/day). In another rat study, developmental effects were observed at the maternally toxic dose of 3000 mg/kg bw/day (again, the highest dose tested).
2,5-BIS(5-TERT-BUTYL- 2-BENZOXAZOLYL)THIOPHENE	
DIPROPYLENE GLYCOL MONOMETHYL ETHER & 2-METHYL- 4-ISOTHIAZOLIN-3-ONE & 2-OCTYL- 4-ISOTHIAZOLIN-3-ONE & ALCOHOLS C11-14-ISO-, C13-RICH, ETHOXYLATED	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. 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 (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.
DIPROPYLENE GLYCOL MONOMETHYL ETHER & 2,2,4-TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE & 2-METHYL-4-ISOTHIAZOLIN-3-ONE & OCTAMETHYLCYCLOTETRASILOXANE	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
DIPROPYLENE GLYCOL MONOMETHYL ETHER & 2,2,4-TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE & 2-METHYL-4-ISOTHIAZOLIN-3-ONE & TERBUTRYN & OCTAMETHYLCYCLOTETRASILOXANE & TRIDECYL ALCOHOL, ETHOXYLATED	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.
PROPYLENE GLYCOL & ALCOHOLS C11-14-ISO-, C13-RICH, ETHOXYLATED	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 the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
BUTYL ALCOHOL PROPOXYLATED & ALCOHOLS C11-14-ISO-, C13-RICH, ETHOXYLATED	Polyethers, for example, ethoxylated surfactants and polyethylene glycols, are highly susceptible towards air oxidation as the ether oxygens will stabilize intermediary radicals involved. Investigations of a chemically well-defined alcohol (pentaethylene glycol mono-n-dodecyl ether) ethoxylate, showed that polyethers form complex mixtures of oxidation products when exposed to air. Sensitization studies in guinea pigs revealed that the pure nonoxidized surfactant itself is nonsensitizing but that many of the investigated oxidation products are sensitizers. Two hydroperoxides were identified in the oxidation mixture, but only one (16-hydroperoxy-3,6,9,12,15-pentaoxaheptacosan-1-ol) was stable enough to be isolated. It was found to be a strong sensitizer in LLNA (local lymph node assay for detection of sensitization capacity). The formation of other hydroperoxides was indicated by the detection of their corresponding aldehydes in

the oxidation mixture .

ETHOXYLATED & TRIDECYL ALCOHOL,

ETHOXYLATED

E-Coat DD1008 On the basis of the lower irritancy, nonionic surfactants are often preferred to ionic surfactants in topical products. However, their susceptibility towards autoxidation also increases the irritation. Because of their irritating effect, it is difficult to diagnose ACD to these compounds by patch testing. Allergic Contact Dermatitis—Formation, Structural Requirements, and Reactivity of Skin Sensitizers, Ann-Therese Karlberg et al; Chem. Res. Toxicol.2008,21,53-69 Polyethylene glycols (PEGs) have a wide variety of PEG-derived mixtures due to their readily linkable terminal primary hydroxyl groups in combination with many possible compounds and complexes such as ethers, fatty acids, castor oils, amines, propylene glycols, among other derivatives. PEGs and their derivatives are broadly utilized in cosmetic products as surfactants, emulsifiers, cleansing agents, humectants, and skin conditioners. PEGs and PEG derivatives were generally regulated as safe for use in cosmetics, with the conditions that impurities and by-products, such as ethylene oxides and 1,4-dioxane, which are known carcinogenic materials, should be removed before they are mixed in cosmetic formulations. Most PEGs are commonly available commercially as mixtures of different oligomer sizes in broadly- or narrowly-defined molecular weight (MW) ranges. For instance, PEG-10,000 typically designates a mixture of PEG molecules (n = 195 to 265) having an average MW of 10,000. PEG is also known as polyethylene oxide (PEO) or polyoxyethylene (POE), with the three names being chemical synonyms. However, PEGs mainly refer to oligomers and polymers with molecular masses below 20,000 g/mol, while PEOs are polymers with molecular masses above 20,000 g/mol, and POEs are polymers of any molecular mass. Relatively small molecular weight PEGs are produced by the chemical reaction between ethylene oxide and water or ethylene glycol (or other ethylene glycol oligomers), as catalyzed by acidic or basic catalysts. To produce PEO or high-molecular weight PEGs, synthesis is performed by suspension polymerization. It is necessary to hold the growing polymer chain in solution during the course of the poly-condensation process. The reaction is catalyzed by magnesium-, aluminum-, or calciumorganoelement compounds. To prevent coagulation of polymer chains in the solution, chelating additives such as dimethylglyoxime are used Safety Evaluation of Polyethyene Glycol (PEG) Compounds for Cosmetic Use: Toxicol Res 2015; 31:105-136 The Korean Society of Toxicology http://doi.org/10.5487/TR.2015.31.2.105 For high boiling ethylene glycol ethers (typically triethylene- and tetraethylene glycol ethers): Skin absorption: Available skin absorption data for triethylene glycol ether (TGBE), triethylene glycol methyl ether (TGME), and triethylene glycol ethylene ether (TGEE) suggest that the rate of absorption in skin of these three glycol ethers is 22 to 34 micrograms/cm2/hr, with the methyl ether having the highest permeation constant and the butyl ether having the lowest. The rates of absorption of TGBE, TGEE and TGME are at least 100-fold less than EGME, EGEE, and EGBE, their ethylene glycol monoalkyl ether counterparts, which have absorption rates that range from 214 to 2890 micrograms/ cm2/hr . Therefore, an increase in either the chain length of the alkyl substituent or the number of ethylene glycol moieties appears to lead to a decreased rate of percutaneous absorption. However, since the ratio of the change in values of the ethylene glycol to the diethylene glycol series is larger than that of the diethylene glycol to triethylene glycol series, the effect of the length of the chain and number of ethylene glycol moieties on absorption diminishes with an increased number of ethylene glycol moieties. Therefore, although tetraethylene glycol methyl; ether (TetraME) and tetraethylene glycol butyl ether (TetraBE) are expected to be less permeable to skin than TGME and TGBE, the differences in permeation between these molecules may only be slight. Metabolism: The main metabolic pathway for metabolism of ethylene glycol monoalkyl ethers (EGME, EGEE, and EGBE) is oxidation via alcohol and aldehyde dehydrogenases (ALD/ADH) that leads to the formation of an alkoxy acids. Alkoxy acids are the only toxicologically significant metabolites of glycol ethers that have been detected in vivo. The principal metabolite of TGME is believed to be 2-[2-(2methoxyethoxy)ethoxy] acetic acid . Although ethylene glycol, a known kidney toxicant, has been identified as an impurity or a minor metabolite of glycol ethers in animal studies it does not appear to contribute to the toxicity of glycol ethers. The metabolites of category members are not likely to be metabolized to any large extent to toxic molecules such as ethylene glycol or the mono alkoxy acids because metabolic breakdown of the ether linkages also has to occur Acute toxicity: Category members generally display low acute toxicity by the oral, inhalation and dermal routes of exposure. Signs of toxicity in animals receiving lethal oral doses of TGBE included loss of righting reflex and flaccid muscle tone, coma, and heavy breathing. Animals administered lethal oral doses of TGEE exhibited lethargy, ataxia, blood in the urogenital area and piloerection before death. Irritation: The data indicate that the glycol ethers may cause mild to moderate skin irritation. TGEE and TGBE are highly irritating to the eyes. Other category members show low eye irritation. Repeat dose toxicity. Results of these studies suggest that repeated exposure to moderate to high doses of the glycol ethers in this category is required to produce systemic toxicity In a 21-day dermal study, TGME, TGEE, and TGBE were administered to rabbits at 1,000 mg/kg/day. Erythema and oedema were observed. In addition, testicular degeneration (scored as trace in severity) was observed in one rabbit given TGEE and one rabbit given TGME. Testicular effects included spermatid giant cells, focal tubular hypospermatogenesis, and increased cytoplasmic vacuolisation . Due to a high incidence of similar spontaneous changes in normal New Zealand White rabbits, the testicular effects were considered not to be related to treatment. Thus, the NOAELs for TGME, TGEE and TGBE were established at 1000 mg/kg/day. Findings from this report were considered unremarkable A 2-week dermal study was conducted in rats administered TGME at doses of 1,000, 2,500, and 4,000 mg/kg/day. In this study, significantlyincreased red blood cells at 4,000 mg/kg/day and significantly-increased urea concentrations in the urine at 2,500 mg/kg/day were observed. A few of the rats given 2,500 or 4,000 mg/kg/day had watery caecal contents and/or haemolysed blood in the stomach These gross pathologic observations were not associated with any histologic abnormalities in these tissues or alterations in haematologic and clinical chemistry parameters. A few males and females treated with either 1,000 or 2,500 mg/kg/day had a few small scabs or crusts at the test site. These alterations were slight in degree and did not adversely affect the rats In a 13-week drinking water study, TGME was administered to rats at doses of 400, 1,200, and 4,000 mg/kg/day. Statistically-significant changes in relative liver weight were observed at 1,200 mg/kg/day and higher. Histopathological effects included hepatocellular cytoplasmic vacuolisation (minimal to mild in most animals) and hypertrophy (minimal to mild) in males at all doses and hepatocellular hypertrophy (minimal to mild) in high dose females. These effects were statistically significant at 4,000 mg/kg/day. Cholangiofibrosis was observed in 7/15 high-dose males; this effect was observed in a small number of bile ducts and was of mild severity. Significant, small decreases in total test session motor activity were observed in the high-dose animals, but no other neurological effects were observed. The changes in motor activity were secondary to systemic toxicity Mutagenicity: Mutagenicity studies have been conducted for several category members. All in vitro and in vivo studies were negative at concentrations up to 5,000 micrograms/plate and 5,000 mg/kg, respectively, indicating that the category members are not genotoxic at the concentrations used in these studies. The uniformly negative outcomes of various mutagenicity studies performed on category members lessen the concern for carcinogenicity. Reproductive toxicity: Although mating studies with either the category members or surrogates have not been performed, several of the repeated dose toxicity tests with the surrogates have included examination of reproductive organs. A lower molecular weight glycol ether, ethylene glycol methyl ether (EGME), has been shown to be a testicular toxicant. In addition, results of repeated dose toxicity tests with TGME clearly show testicular toxicity at an oral dose of 4,000 mg/kg/day four times greater that the limit dose of 1,000 mg/kg/day recommended for repeat dose studies. It should be noted that TGME is 350 times less potent for testicular effects than EGME. TGBE is not associated with testicular toxicity, TetraME is not likely to be metabolised by any large extent to 2-MAA (the toxic metabolite of EGME), and a mixture containing predominantly methylated glycol ethers in the C5-C11 range does not produce testicular toxicity (even when administered intravenously at 1,000 mg/kg/day). Developmental toxicity: The bulk of the evidence shows that effects on the foetus are not noted in treatments with . 1,000 mg/kg/day during gestation. At 1,250 to 1,650 mg/kg/day TGME (in the rat) and 1,500 mg/kg/day (in the rabbit), the developmental effects observed included skeletal variants and decreased body weight gain. Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents, **BUTYL ALCOHOL PROPOXYLATED &** and other cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contact with the skin or eyes. Studies of ALCOHOLS C11-14-ISO-, C13-RICH, acute toxicity show that volumes well above a reasonable intake level would have to occur to produce any toxic response. Moreover, no fatal case

of poisoning with alcohol ethoxylates has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have shown Continued...

		that the use of these compounds is of low concern in terms of oral and dermal toxicity. Clinical animal studies indicate these chemicals may produce gastrointestinal irritatio diarrhea, and lethargy. Similarly, slight to severe irritation of the skin or eye was genera the skin and eyes of rabbits and rats. The chemical shows no indication of being a genera information was available on levels at which these effects might occur, though toxicity in onylphenol ethoxylates. Polyethers, for example, ethoxylated surfactants and polyethylene glycols, are highly s stabilize intermediary radicals involved. Investigations of a chemically well-defined a ethoxylate, showed that polyethers form complex mixtures of oxidation products when e Sensitization studies in guinea pigs revealed that the pure nonoxidized surfactant itsel oxidation products are sensitizers. Two hydroperoxides were identified in the oxidation pentaoxaheptacosan-1-ol ) was stable enough to be isolated. It was found to be a stro detection of sensitization capacity). The formation of other hydroperoxides was indicatur oxidation mixture . On the basis of the lower irritancy, nonionic surfactants are often preferred to ionic sur towards autoxidation also increases the irritation. Because of their irritating effect, it testing.	In such as ulcerations of the stomach, pilo-erection, ated when undiluted alcohol ethoxylates were applied to notoxin, carcinogen, or mutagen (HERA 2007). No is thought to be substantially lower than that of usceptible towards air oxidation as the ether oxygens will lcohol (pentaethylene glycol mono-n-dodecyl ether) xposed to air. If is nonsensitizing but that many of the investigated mixture, but only one (16-hydroperoxy-3,6,9,12,15- ong sensitizer in LLNA (local lymph node assay for ed by the detection of their corresponding aldehydes in the rfactants in topical products. However, their susceptibility t is difficultto diagnose ACD to these compounds by patch
BUTYL ALCOHOL PROPOXYL POLYETHYLENE GLYCOL (10) S ETHER & ALCOHOLS C11- C13-RICH, ETHOXYLATED & TR ALCOHOL, ETHOX	LATED & TEARYL -14-ISO-, RIDECYL YLATED	Alcohol ethoxylates are according to CESIO (2000) classified as Irritant or Harmful de EO < 5 gives Irritant (Xi) with R38 (Irritating to skin) and R41 (Risk of serious damag EO > 5-15 gives Harmful (Xn) with R22 (Harmful if swallowed) - R38/41 EO > 15-20 gives Harmful (Xn) with R22-41 > 20 EO is not classified (CESIO 2000) Oxo-AE, C13 EO10 and C13 EO15, are Irritating (Xi) with R36/38 (Irritating to eyes a AE are not included in Annex 1 of the list of dangerous substances of the Council Dire In general, alcohol ethoxylates (AE) are readily absorbed through the skin of guinea p rats. AE are quickly eliminated from the body through the urine, faeces, and expired a extensively in rats, and more than 75% of the dose was absorbed. When applied to the incompletely (50% absorbed in 72 hours). Half of the absorbed surfactant was excrete appeared in the faeces and expired air (CO2) ). The metabolism of C12 AE yields PE values after oral administration to rats range from about 1-15 g/kg body weight indicat. The ability of nonionic surfactants to cause a swelling of the stratum corneum of guine the skin involves a combination of ionic binding of the hydrophilic group as well as hyd. One of the mechanisms of skin irritation caused by surfactants is considered to be derestablished that there is a connection between the potential of surfactants to denature surfactants to not carry any net charge and, therefore, they can only form hydrophobid deactivated by nonionic surfactants, and proteins with poor solubility are not solubilize toxicological data and information in vivo and in vitro demonstrates that there is no evimutagenic or carcinogenic. No adverse reproductive or developmental effects were ot MOAELs in excess of 100 mg/kg bw/d but the lowest NOAEL for an individual AE was subsequently considered as a conservative, representative value in the risk assessme weights with no histopathological organ changes with the exception of liver hypertroph than a toxic effect). It is noteworthy that there was practically no differen	epending on the number of EO-units: te to eyes) and skin) . active 67/548/EEC bigs and rats and through the gastrointestinal mucosa of ir (CO2).Orally dosed AE was absorbed rapidly and skin of humans, the doses were absorbed slowly and do promptly in the urine and smaller amounts of AE G, carboxylic acids, and CO2 as metabolites. The LD50 ing a low to moderate acute toxicity. as pig skin has been studied. The swelling mechanism of trophobic interactions of the alkyl chain with the substrate. haturation of the proteins of skin. It has also been protein in vitro and their effect on the skin. Nonionic c bonds with proteins. For this reason, proteins are not d by nonionic surfactants. A substantial amount of dence for alcohol ethoxylates (AEs) being genotoxic, pserved. The majority of available toxicity studies revealed established to be 50 mg/kg bw/day. This value was ent of AE. The effects were restricted to changes in organ ty (indicative of an adaptive response to metabolism rather EL in oral studies of 90-day or 2 years of duration in rats. into account an oral absorption value of 75%) results in a ssessment and the assigned systemic NOAEL, this entainty and variability of the hazard database and inter potential of aqueous solutions of AEs depends on e scenarios where the products are diluted are not of Potential irritation of the respiratory tract is not a concern r aerosols or laundry powder detergent dust.
2-METHYL-4-ISOTHIAZOLIN- 1,2-BENZISOTHIAZOLINE- 2-OCTYL-4-ISOTHIAZOLII	3-ONE & 3-ONE & N-3-ONE	The following information refers to contact allergens as a group and may not be spec Contact allergies quickly manifest themselves as contact eczema, more rarely as urtil eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed typ involve antibody-mediated immune reactions. The significance of the contact allergen distribution of the substance and the opportunities for contact with it are equally impor distributed can be a more important allergen than one with stronger sensitising potent clinical point of view, substances are noteworthy if they produce an allergic test reaction	ific to this product. caria or Quincke's oedema. The pathogenesis of contact e. Other allergic skin reactions, e.g. contact urticaria, is not simply determined by its sensitisation potential: the tant. A weakly sensitising substance which is widely tial with which few individuals come into contact. From a n in more than 1% of the persons tested.
DIETHYLENE GLYCOL MON ETHER & ALCOHOLS C11 C13-RICH, ETHOXYLATED & TR ALCOHOL, ETHOX	OBUTYL -14-ISO-, RIDECYL YLATED	The material may produce severe irritation to the eye causing pronounced inflammatic produce conjunctivitis.	on. Repeated or prolonged exposure to irritants may
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eve Damage/Irritation	0	STOT - Single Exposure	0
Resniratory or Skin	~		
sensitisation Mutagenicity	0	STOT - Repeated Exposure	N N
mutagementy	9		9

Legend: X – Data available but does not fill the criteria for classification - Data available to make classification

S – Data Not Available to make classification

### SECTION 12 ECOLOGICAL INFORMATION

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
E-Coat DD1008	Not		N. ( A. ( 7-1).	Not	Not
	Available		Not Available	Available	Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
acrylic polymer	Not Available	Not Available	Not Available	Not Available	Not Available
	FNDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>1930mg/L	2
dipropylene glycol monomethyl	EC50	48	Crustacea	1930mg/L	2
ether	EC50	72	Algae or other aquatic plants	>969mg/L	2
	NOEC	72	Algae or other aquatic plants	969mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>19mg/L	2
2,2,4-trimethyl-1,3-pentanediol	EC50	48	Crustacea	>19mg/L	2
monoisobutyrate	EC50	72	Algae or other aquatic plants	8.1mg/L	2
	NOEC	72	Algae or other aquatic plants	2mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	710mg/L	4
propylene glycol	EC50	48	Crustacea	>1000mg/L	4
	EC50	96	Algae or other aquatic plants	19000mg/L	2
	NOEC	168	Fish	98mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	1350mg/L	1
	EC50	48	Crustacea	>500mg/L	1
butyl alcohol propoxylated	EC50	72	Algae or other aquatic plants	>500mg/L	1
	NOEC	96	Fish	1000mg/L	1
	EC50	96	Algae or other aquatic plants	315mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.07mg/L	4
2-methyl-4-isothiazolin-3-one	EC50	48	Crustacea	0.18mg/L	4
	EC50	72	Algae or other aquatic plants	0.05mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
1,2-benzisothiazoline-3-one	LC50	96	Fish	1.6mg/L	4
	EC50	48	Crustacea	0.062mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	1300mg/L	4
diethylene glycol monobutyl	EC50	48	Crustacea	>100mg/L	1
enter	EC50	96	Algae or other aquatic plants	>100mg/L	1
	NOEC	96	Algae or other aquatic plants	>=100mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.82mg/L	4
terbutryn	EC50	48	Crustacea	7.1mg/L	4
	EC50	72	Algae or other aquatic plants	0.002mg/L	4
	BCFD	96	Algae or other aquatic plants	0.1mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.047mg/L	4
2-octyl-4-isothiazolin-3-one	EC50	48	Crustacea	0.18mg/L	4
	BCF	1608	Fish	0.05mg/L	4
	NOEC	48	Crustacea	<=0.08mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
			OI LOILO	VALUE	SOUNCE

	NOEC	720	Fish	0.11-0.28mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>0.0063mg/L	2
	EC50	48	Crustacea	>0.015mg/L	2
octamethylcyclotetrasiloxane	EC50	96	Algae or other aquatic plants	>0.022mg/L	2
	BCF	120	Fish	0.00053mg/L	4
	NOEC	336	Fish	<=0.0044mg/L	4
alaahala 044 44 isaa - 042 sish	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
alcohols C11-14-iso-, C13-rich, ethoxylated	Not Available	Not Available	Not Available	Not Available	Not Available
teideed alock at other dated	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
tridecyl alcohol, ethoxylated, phosphated, potassium salt	Not Available	Not Available	Not Available	Not Available	Not Available
trideaul electrol, ethewy detect	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
tridecyl alcohol, ethoxylated	LC50	96	Fish	7.5mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
2,5-bis(5-tert-buty)- 2-benzoxazolyl)thiophene	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
gamma- glycidoxypropyltrimethoxysilane	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1 (QSAR) - Aquat (Japan) - Biocon	. IUCLID Toxicity Data 2. Europe ECHA ic Toxicity Data (Estimated) 4. US EPA, E icentration Data 7. METI (Japan) - Biocor	Registered Substances - Ecotoxicological Informatic Ecotox database - Aquatic Toxicity Data 5. ECETOC ncentration Data 8. Vendor Data	n - Aquatic Toxicity 3. EPIWI Aquatic Hazard Assessment	N Suite V3.12 Data 6. NITE

DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
dipropylene glycol monomethyl ether	HIGH	HIGH
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	LOW	LOW
propylene glycol	LOW	LOW
butyl alcohol propoxylated	LOW	LOW
2-methyl-4-isothiazolin-3-one	HIGH	HIGH
diethylene glycol monobutyl ether	LOW	LOW
terbutryn	HIGH	HIGH
2-octyl-4-isothiazolin-3-one	HIGH	HIGH
polyethylene glycol (10) stearyl ether	HIGH	HIGH
octamethylcyclotetrasiloxane	HIGH	HIGH
2,5-bis(5-tert-butyl- 2-benzoxazolyl)thiophene	HIGH	HIGH
gamma- glycidoxypropyltrimethoxysilane	HIGH	HIGH

## Bioaccumulative potential

Ingredient	Bioaccumulation
dipropylene glycol monomethyl ether	LOW (BCF = 100)
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	LOW (LogKOW = 2.9966)
propylene glycol	LOW (BCF = 1)
butyl alcohol propoxylated	LOW (LogKOW = 1.2706)
2-methyl-4-isothiazolin-3-one	LOW (LogKOW = -0.8767)
diethylene glycol monobutyl ether	LOW (BCF = 0.46)
terbutryn	LOW (LogKOW = 2.8257)
2-octyl-4-isothiazolin-3-one	LOW (LogKOW = 2.561)

polyethylene glycol (10) stearyl ether	LOW (LogKOW = 2.2284)
octamethylcyclotetrasiloxane	HIGH (BCF = 12400)
2,5-bis(5-tert-butyl- 2-benzoxazolyl)thiophene	LOW (LogKOW = 8.6112)
gamma- glycidoxypropyltrimethoxysilane	LOW (LogKOW = -0.9152)

### Mobility in soil

Ingredient	Mobility
dipropylene glycol monomethyl ether	LOW (KOC = 10)
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	LOW (KOC = 22.28)
propylene glycol	HIGH (KOC = 1)
butyl alcohol propoxylated	LOW (KOC = 10)
2-methyl-4-isothiazolin-3-one	LOW (KOC = 27.88)
diethylene glycol monobutyl ether	LOW (KOC = 10)
terbutryn	LOW (KOC = 3590)
2-octyl-4-isothiazolin-3-one	LOW (KOC = 2120)
polyethylene glycol (10) stearyl ether	LOW (KOC = 1000000000)
octamethylcyclotetrasiloxane	LOW (KOC = 17960)
2,5-bis(5-tert-butyl- 2-benzoxazolyl)thiophene	LOW (KOC = 236300000)
gamma- glycidoxypropyltrimethoxysilane	LOW (KOC = 90.22)

### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Product / Packaging disposal	<ul> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li>D ON OT allow wash water from cleaning or process equipment to enter drains.</li> <li>I may be necessary to collect all wash water for treatment before disposal.</li> <li>I n all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible.</li> <li>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.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

### **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**

DPICOL         Autorial Sciences (ALS)         Autorial Sciences (ALS)           22.4.7.10000000000000000000000000000000000	ACRYLIC POLYMER(NOT AVA	ILABLE) IS FOUND ON THE FOLLOWING REGULATORY	LISTS
Australe Intervery of Chernel Susception (ALCE)         Australe Intervery of Chernel Susception (ALCE)           22.4.TRIMETHYL-1.3-PERTANEDIOL MONDIOGUTYPATE(2528-77-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS           Australe Intervery of Chernel Susception (ALCE)         Australe Intervery of Chernel Susception (ALCE)           Australe Intervery of Chernel Susception (ALCE)         Australe Intervery of Chernel Susception (ALCE)           Australe Intervery of Chernel Susception (ALCE)         Australe Intervery of Chernel Susception (ALCE)           Australe Intervery of Chernel Susception (ALCE)         Australe Intervery of Chernel Susception (ALCE)           Australe Intervery of Chernel Susception (ALCE)         Australe Intervery of Chernel Susception (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischert for the Unition Scheduling of Medicines and Poisons (SUSCH) - Appendix Bischeration form Unition Scheduling of Medicines and Poi	DIPROPYLENE GLYCOL MON	IOMETHYL ETHER(34590-94-8) IS FOUND ON THE FOLLO	DWING REGULATORY LISTS
Austatis         BCPR13           2247TREETENT, 1250TRANEDUL CONSORTITYATE(2265-77-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS           Austatis         Austatis           Austatis         Reachis           PROPLIKE GLYCOL(57-56-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Austatis           Austatis         Reachis           Semistre for the Unitors         Statustation (SUSMP) - Appendix           BYTAL         Austatis           Austatis         BYTAL           Austatis         Austatis           BYTAL         Austatis           Austatis         BYTAL           Austatis<	Australia Exposure Standards		Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix
2.4.7 EVENE CONCENT Statements (SUSSION)       A partial formand (Submark Statements (SUSSION))         Additional Statements (SUSSION)       A partial Statement (Submark Statements (SUSSION))         Additional Statements (SUSSION)       A partial Statement (Submark Statements (SUSSION))         Additional Statements (SUSSION)       A partial Statement (Submark Statements (SUSSION))         Additional Statement (SUSSION)       A partial Statement (SUSSION)         Additional Statement (SUSSION)       A pa	Australia Inventory of Chemical S	Substances (AICS)	B (Part 3)
Acardia Deputie Network of Chemical Science (NCS)         PROPYLENE GUYCOL(57:45-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS           Acardia Deputie Size Size Size Size Size Size Size Si	2,2,4-TRIMETHYL-1,3-PENTA	NEDIOL MONOISOBUTYRATE(25265-77-4) IS FOUND ON 1	THE FOLLOWING REGULATORY LISTS
PROPUED CLYDE CLYD LGY 548 (SI FOUND ON THE FOLLOWING REGULATORY LISTS         Australia Standard or the Unitom Scheduling of Madanes and Patanes (SUSMP) - Apoends Patanes Subdet for the Unitom Scheduling of Madanes and Patanes (SUSMP) - Apoends Patanes Subdet for the Unitom Scheduling of Madanes and Patanes (SUSMP) - Apoends Patanes Subtanes (ACS)	Australia Inventory of Chemical S	Substances (AICS)	
Austable Stordurd (Dirented Statebalang of Medicines and Pisaces (SUSMP) - Agencide Austable Stordurd (Dirented Statebalang of Medicines and Pisaces (SUSMP) - Agencide (Pint 3) <ul> <li>Austable Stordurd (Dirented Statebalang of Medicines and Pisaces (SUSMP) - Agencide (Pint 3)</li> <li>BUTL ALCOOL PROPONYLATED (SUSMP) - Agencide (Pint 3)</li> <li>BUTL ALCOOL PROPONYLATED (SUSMP) - Agencide (Pint 3)</li> <li>Austable Relations (Content 4)</li> <li>Austable Relation (Cont</li></ul>	PROPYLENE GLYCOL(57-55-	6) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Adarbalis Subsection To United Subsections (ALC3)         In Parlies Subsection To United Subsections (SUSMP) - Appendix Subsection (SUSMP) - Appendix Sub	Australia Exposure Standards		Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix
B (Part 3)         F (Part 3)           Australe Strandard for the Unition Scheduling of Medianes and Poiscons (SUSMP) - Appendix Australe Scheduling of Medianes and Poiscons (SUSMP) - Appendix Australe Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Australe Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Appendix Experimentary of Chemical Scheduling of Medianes and Poiscons (SUSMP) - Scheduling of Medianes and Poiscons (SUSMP) - Scheduling of Medianes and Poiscons (SUSMP) - Scheduling of Medianes and Poiscons (SUSMP)	Australia Inventory of Chemical S Australia Standard for the Unifor	Substances (AICS) m Scheduling of Medicines and Poisons (SUSMP) - Appendix	E (Part 2) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix
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Australia Baardard Chemical Victories (VICE) - Harakadus Chemicals Chemicals (VICE) - Harakadus Chemica		ATED(143-22-6) IS FOUND ON THE FOUL OWING REGUL	ATORY LISTS
Austalis Inventory of Chemical Substances (ACS)         B (Part 3)           2 METH/L4-48/OFHIA2OLINA-SONE(282-20-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Austalia Substances (ACS)           Austafia Hazandous Chemical Monitoria System (HCG) - Hazandous Chemicals Substances (ACS)         Austafia Substances (ACS)           1 - 2 SEX/28/OFHIA2OLINE - SONE(284-33-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Austafia Substances (ACS)           Austafia Hazandous Chemical Molecines and Poisone (SUSMP) - Appendix Substances (ACS)         Perform 3)           Austafia Hazandous Chemical Molecines and Poisone (SUSMP) - Appendix F (Part 3)         Austafia Hazandous Chemical Molecines and Poisone (SUSMP) - Appendix F (Part 3)           Austafia Hazandous Chemical Molecines (SUSMP) - Appendix F (Part 3)         Austafia Substances (ACS)         Austafia Substances (ACS)           1 FERUTIYN(86-59-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Austafia Substances (ACS)         Austafia Substances (ACS)           2 COTYL-43OTHAZOLIN-3-ONE(2630-26-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Austafia Substances (ACS)         Austafia Substances (ACS)           2 COTYL-43OTHAZOLIN-3-ONE(2630-26-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Austafia Hazandous Chemical Substances (ACS)         Austafia Hazandous Chemical Substances (ACS)           2 COTYL-43OTHAZOLIN-3-ONE(2630-26-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Austafia Hazandous Chemical Substances (ACS)           2 COTYL-410CT(LOTERTASLICAANE(556-7) IS FOUND ON THE FOLLO	Australia Hazardous Chemical Ir	nformation System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix
2 Addrahu Autority of Chemical Subtance (ACS)       Autorital Subcature (ACS) </td <td>Australia Inventory of Chemical S</td> <td>Substances (AICS)</td> <td>B (Part 3)</td>	Australia Inventory of Chemical S	Substances (AICS)	B (Part 3)
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Australia Inventory of Chemical Substances (ACS)       F F Part 3)         Australia Inventory of Chemical Substances (ACS)       Australia Inventory of Chemical Substances (ACS)         I 2- SEN2SOTHIAZOLINE-3-ONE(253-3-3-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (ACS)         DIETHYLENE GLYCOL MONOBUTYL ETHER(112-34-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (ACS)         Australia Inventory of Chemical Substances (ACS)       F (Part 3)         Australia Inventory of Chemical Substances (ACS)       Australia Inventory of Chemical Substances (ACS)         I EFBUTRYN(88-50-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Substances (ACS)         Australia Substances (ACS)       Australia Substances (ACS)       Australia Substances (ACS)         I EFBUTRYN(88-50-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Substances (ACS)       Australia Substances (ACS)         I Contract Substances (ACS)       Australia Substances (ACS)       Australia Substances (ACS)       Australia Substances (ACS)         I POLYETHYLENE GLYCOL (10) STEARYL ETHER(005-00-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (ACS)         I POLYETHYLENE GLYCOL (10) STEARYL ETHER(005-00-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (ACS)         I POLYETHYLENE GLYCOL (10) STEARYL ETHER(005-00-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS	Australia Hazardous Chemical Ir	formation System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix
g         12-SERIAL DURLING CONTRICTOR ON THE FOLLOWING RECOULTORY LISTS         Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicalis       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix         Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicalis       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix         Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedulies         1 FEBUTRY/ME86-50-91 SF OUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedulies         2 OCTYL-4-ISOTHIAZOLIN-3-ONE2653-02-01 JI SF OUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedulies         3 Australia Inventory of Chemical Substances (ACS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedulies         2 OCTYL-4-ISOTHIAZOLIN-3-ONE2653-02-01 JI S FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (ACS)         2 OCTYL-4-ISOTHIAZOLIN-Scheduling of Medicines and Poisons (SUSMP) - Scheduling of Chemical Subatances (ACS)	Australia Inventory of Chemical S	Substances (AICS)	F (Part 3) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
1 2-BERZISOTHAZOLINE-3-ONE[25J-33-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Australia Hzaradous Chemical Information System (HCS) - Hazadous Chemicals       Australia Hiventory of Chemical Substances (AICS)         DETHYLENE GLYCOL MONOBUTYL ETHER(112-34-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)         Australia Inventory of Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix 5         Ventralia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix 5       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix 5         2 OCTYL-4ISOTHIAZOLIN-3-ONE(2530-20-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         Australia Inventory of Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Scheduling of Chemical Substances (AICS)         OCTAMETHYLCYCLOTETRASIL/XANE(566-67-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)         1 TRIECYL ALCOHOL, ETHOYLATED, POTASSUM SALT(66166-36-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS			6
Australia Huzandous Chemical Information System (HCIS) - Hazandous ChemicalS       Australia Inventory of Chemical Substances (AICS)         IDETITYLENE GLYCOL, MONOBUTYL ETHER(11:3:4-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix         Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Scheduling of Chemical Substances (ACS)	1,2-BENZISOTHIAZOLINE-3-C	DNE(2634-33-5) IS FOUND ON THE FOLLOWING REGULAT	TORY LISTS
IDETHYLENE GLYCOL MONOBUTYL ETHER (112:34:5) IS POUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Unitom Scheduling of Medicines and Poisons (SUSMP) - Appendix a variation is supported of the Unitom Scheduling of Medicines and Poisons (SUSMP) - Scheduling of Medicines and Poisons	Australia Hazardous Chemical Ir	nformation System (HCIS) - Hazardous Chemicals	Australia Inventory of Chemical Substances (AICS)
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Australia Inventory of Chemical Substances (AICS)         F (Part 3)           Australia Stendard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix         Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5                TEREUTEYN(865-500) IS FOUND ON THE FOLLOWING REGULATORY LISTS          Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5                ZOCTYL-41SOTHIAZOLIN-3-ONE(26530-20-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS          Australia Istandard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)                 Australia Inventory of Chemical Substances (AICS)          Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)                 Australia Inventory of Chemical Substances (AICS)          Australia Inventory of Chemical Substances (AICS)                 OCTAMETHYLE/EXCOL (10) STEARYL ETHER(9005-00-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS          Australia Inventory of Chemical Substances (AICS)                 OCTAMETHYLE/CLOTETRASIL/SARE(56-72) IS FOUND ON THE FOLLOWING REGULATORY LISTS          Australia Inventory of Chemical Substances (AICS)                 OCTAMETHYLE/CLOTETRASIL/SARE(56-72) IS FOUND ON THE FOLLOWING REGULATORY LISTS          Australia Inventory of Chemical Substances (AICS)                 TRIDECYL ALCOHOL, ETHOXYLATED(PROSPHATE), POTASUM SALT(68168-36-7) IS FOUND ON THE FOLLOWING R	Australia Hazardous Chemical Ir	nformation System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix
Australia Standard for the Uniform Scheduling of Neddanles and Posteris (SUSMP) - Appendix	Australia Inventory of Chemical S	Substances (AICS)	F (Part 3) Australia Standard for the Uniform Scheduling of Madicines and Poicons (SUSMD) - Schedule
PERBUTRYN(886-50-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5         2-OCTYL-4-ISOTHIAZOLIN-3-ONE(26530-20-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)         Australia Inventory of Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)         Australia Inventory of Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6         POLYETHYLENE GLYCOL (10) STEARYL ETHER(8005-00-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)         Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)         Australia Inventory of Chemical Substances (AICS)       TRIDECYL ALCOHOL, ETHOXYLATED, PHOSPHATED, POTASSIUM SALT(68186-36-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Australia Inventory of Chemical Substances (AICS)       TRIDECYL ALCOHOL, ETHOXYLATED, PHOSPHATED, POTASSIUM SALT(68186-36-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Australia Inventory of Chemical Substances (AICS)       TRIDECYL ALCOHOL, ETHOXYLATED, PHOSPHATED, POTASSIUM SALT(68186-36-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Australia Inventory of Chemical Substances (AICS)	E (Part 2)	m Scheduling of Medicines and Poisons (SUSIMP) - Appendix	
Australia Inventory of Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5         2-OCTYL-4-ISOTHIAZOLIN-3-ONE[26530-20-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)         Australia Inventory of Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6         POLYETHYLENE GLYCOL (10) STEARYL ETHER(9005-00-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Standard for the Uniform Scheduling of Medicines (AICS)         OCTAMETHYLCYCLOTETRASIL.OXANE(656-67-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)         Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)         TRIDECYL ALCOHOL, ETHOXYLATED, PHOSPHATED, POTASSUM SALT(68186-36-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         Z-BIS(G-TERT-BUTYL-2-BENZOXAZOLYL)THOPHENE(7128-64-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         Z-BIS(G-TERT-BUTYL-2-BENZOXAZOLYL)THOPHENE(7128-64-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS) <td>TERBUTRYN(886-50-0) IS FO</td> <td>UND ON THE FOLLOWING REGULATORY LISTS</td> <td></td>	TERBUTRYN(886-50-0) IS FO	UND ON THE FOLLOWING REGULATORY LISTS	
5         2-OCTYL-4/SOTHIAZOLN-3-OBE/26530-26-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS         Australia Hazardous Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Par 2)         Australia Inventory of Chemical Substances (AICS)       Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6         POLYETHYLENE GLYCOL (10) STEARYL ETHER(9005-00-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         OCTAMETHYLCYCLOTETRASIL/SCANE(556-67-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         OCTAMETHYLCYCLOTETRASIL/SCANE (556-67-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         Australia Inventory of Chemical Substances (AICS)       Australia Inventory of Chemical Substances (AICS)         TRIDECYL ALCOHOL, ETHOXYLATED, PHOSPHATED, POTASSUM SALT(68166-36-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         TRIDECYL ALCOHOL, ETHOXYLATED(78330-21-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         2.5-BIS(5-TERT-BUTYL-2-BENZ/SAZOLYL)THIOPHENE(7126-64-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS)         2.5-BIS(5-TERT-BUTYL-2-BENZ/SAZOLYL)THIOPHENE(7126-64-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS       Australia Inventory of Chemical Substances (AICS) </td <td>Australia Inventory of Chemical S</td> <td>Substances (AICS)</td> <td>Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule</td>	Australia Inventory of Chemical S	Substances (AICS)	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
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Japan - ENCS	N (acrylic polymer; polyethylene glycol (10) stearyl ether; terbutryn; alcohols C11-14-iso-, C13-rich, ethoxylated; tridecyl alcohol, ethoxylated; tridecyl alcohol, ethoxylated, polyethylene glycol (10) stearyl ether; terbutryn; alcohols C11-14-iso-, C13-rich, ethoxylated; tridecyl alcohol, ethoxylated; tride
Korea - KECI	N (acrylic polymer)
New Zealand - NZIoC	N (acrylic polymer)
Philippines - PICCS	N (acrylic polymer; terbutryn)
USA - TSCA	N (acrylic polymer; terbutryn)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

Revision Date	05/03/2018
Initial Date	03/24/2015

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
dipropylene glycol monomethyl ether	34590-94-8, 12002-25-4, 112388-78-0, 104512-57-4, 83730-60-3, 112-28-7, 13429-07-7, 20324-32-7, 13588-28-8, 55956-21-3
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	25265-77-4, 77-68-9
butyl alcohol propoxylated	9065-63-8, 1033553-65-9, 9038-95-3, 9003-13-8, 55934-93-5, 143-22-6
tridecyl alcohol, ethoxylated, phosphated, potassium salt	68186-36-7, 68410-67-3
tridecyl alcohol, ethoxylated	24938-91-8, 9067-13-4

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.

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

TLV: Threshold Limit Value

- LOD: Limit Of Detection
- CD. LIMIL OF Delection
- OTV: Odour Threshold Value BCF: BioConcentration Factors
- BEI: Biological Exposure Index

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