RESENE KWILA TIMBER STAIN

Resene Paints Ltd

Version No: **2.3**Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

Issue Date: 27/08/2015 Print Date: 27/08/2015 Initial Date: 26/08/2015 L.GHS.NZL.EN

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

Product Identifier

Product name	RESENE KWILA TIMBER STAIN	
Synonyms	Not Available	
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	
Other means of identification	Not Available	

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

Relevant identified uses 8803

Details of the supplier of the safety data sheet

Registered company name	Resene Paints Ltd	
Address	50 Vogel Street Naenae 5011 Wellington New Zealand	
Telephone	+64 4 577 0500	
Fax	+64 4 577 3327	
Website	www.resene.co.nz	
Email	advice@resene.co.nz	

Emergency telephone number

Association / Organisation	NZ POISONS (24hr 7 days)
Emergency telephone numbers	0800 764 766
Other emergency telephone numbers	Not Available

CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
+800 2436 2255	+612 9186 1132	Not Available

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

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

GHS Classification ^[1]	Skin Corrosion/Irritation Category 3, Eye Irritation Category 2A, Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 5, Acute Toxicity (Inhalation) Category 4, Skin Sensitizer Category 1, Carcinogen Category 2, Reproductive Toxicity Category 1B, STOT - SE Category 2, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2, Acute Vertebrate Hazard Category 3, Flammable Liquid Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	9.1B, 6.5B (contact), 6.7B, 6.1E (dermal), 6.3B, 6.4A, 6.1D (oral), 6.9B, 9.1D, 6.1D (inhalation), 3.1C, 6.8A, 9.3C	

Label elements

GHS label elements









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Hazard statement(s)

H316	Causes mild skin irritation
H319	Causes serious eye irritation
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H332	Harmful if inhaled
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H371	May cause damage to organs
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H433	Harmful to terrestrial vertebrates
H226	Flammable liquid and vapour

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	
IF ON SKIN: Wash with plenty of water and soap	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider	
If skin irritation or rash occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
Collect spillage.	
IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Rinse mouth.	

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
100-41-4	10-30	<u>ethylbenzene</u>

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1330-20-7 10-30 xylene 95-63-6 10-30 1,2,4-trimethyl benzene 111-76-2 5-10 ethylene glycol monobutyl ether 84-74-2 1-5 dibutyl phthalate 64742-94-5 0.1-1 solvent naphtha petroleum, heavy aromatic 0.1-1 111-77-3 diethylene glycol monomethyl ether 55406-53-6 0.1-1 3-iodo-2-propynyl butyl carbamate 95154-01-1 0.1-1 (2-benzothiazoylthio)butanedioic acid

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: • Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • Seek medical attention without delay; if pain persists or recurs seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: ► Immediately remove all contaminated clothing, including footwear. ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	 If furnes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

For poisonings due to methyl, ethyl, isopropyl, beta-butoxy-beta-thiocyano -diethyl ether (Lethane 384) and beta-thiocyanodiethyl esters of C10-C18 fatty acids (Lethane 60)

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

For acute or short term repeated exposures to ethylene glycol:

- ▶ Early treatment of ingestion is important. Ensure emesis is satisfactory.
- Test and correct for metabolic acidosis and hypocalcaemia.
- Apply sustained diuresis when possible with hypertonic mannitol.
- ▶ Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- ► Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

[Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures.

Laitinen J., et al: Occupational & Environmental Medicine 1996; 53, 595-600

for simple esters:

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema .
- Monitor and treat, where necessary, for shock.
- ▶ DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.

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- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- ▶ Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

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EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

For acute and short term repeated exposures to methanol:

- Toxicity results from accumulation of formaldehyde/formic acid.
- Clinical signs are usually limited to CNS, eyes and GI tract Severe metabolic acidosis may produce dyspnea and profound systemic effects which may become intractable. All symptomatic patients should have arterial pH measured. Evaluate airway, breathing and circulation.
- Stabilise obtunded patients by giving naloxone, glucose and thiamine.
- Decontaminate with Ipecac or lavage for patients presenting 2 hours post-ingestion. Charcoal does not absorb well; the usefulness of cathartic is not established.
- Forced diuresis is not effective; haemodialysis is recommended where peak methanol levels exceed 50 mg/dL (this correlates with serum bicarbonate levels below 18 mEq/L).
- Ethanol, maintained at levels between 100 and 150 mg/dL, inhibits formation of toxic metabolites and may be indicated when peak methanol levels exceed 20 mg/dL. An intravenous solution of ethanol in D5W is optimal.
- Folate, as leucovorin, may increase the oxidative removal of formic acid. 4-methylpyrazole may be an effective adjunct in the treatment. 8. Phenytoin may be preferable to diazepam for controlling seizure.

[Ellenhorn Barceloux: Medical Toxicology]

BIOLOGICAL EXPOSURE INDEX - BEI

 Determinant
 Index
 Sampling Time
 Comment

 1. Methanol in urine
 15 mg/l
 End of shift
 B, NS

 2. Formic acid in urine
 80 mg/gm creatinine
 Before the shift at end of workweek
 B, NS

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

NS: Non-specific determinant - observed following exposure to other materials

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- ▶ Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

BIOLOGICAL EXPOSURE INDEX - BEI

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

Determinant Index Sampling Time Comments

Methylhippu-ric acids in urine 1.5 gm/gm creatinine End of shift 2 mg/min Last 4 hrs of shift

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

► Foam

Special hazards arising from the substrate or mixture

Fire Incompatibility • Avo

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting

► Alert Fire Brigade and tell them location and nature of hazard.

Fire/Explosion Hazard

► Liquid and vapour are flammable.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	▶ Remove all ignition sources.	
Major Spills	Chemical Class: ester and ethers For release onto land: recommended sorbents listed in order of priority.	
	Personal Protective Equipment advice is contained in Section 8 of the SDS.	

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SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	► Containers, even those that have been emptied, may contain explosive vapours.
Other information	► Store in original containers in approved flammable liquid storage area.

Conditions for safe storage, including any incompatibilities

Suitable container	▶ Packing as supplied by manufacturer.
Storage incompatibility	n-Butyl acetate:
	▶ may generate electrostatic charges on flow or agitation due to low conductivity.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	ethylbenzene	Ethyl benzene	434 mg/m3 / 100 ppm	543 mg/m3 / 125 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	xylene	Xylene (o-, m-, p-isomers)	217 mg/m3 / 50 ppm	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ethylene glycol monobutyl ether	2-Butoxyethanol	121 mg/m3 / 25 ppm	Not Available	Not Available	Skin absorption
New Zealand Workplace Exposure Standards (WES)	dibutyl phthalate	Dibutyl phthalate	5 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethylbenzene	Ethyl benzene	Not Available	Not Available	Not Available
xylene	Xylenes	Not Available	Not Available	Not Available
1,2,4-trimethyl benzene	Trimethylbenzene, 1,2,4-; (Pseudocumene)	Not Available	Not Available	360 ppm
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	20 ppm	20 ppm	700 ppm
dibutyl phthalate	Dibutyl phthalate	15 mg/m3	31 mg/m3	9300 mg/m3
diethylene glycol monomethyl ether	Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether)	0.25 ppm	2.8 ppm	9.9 ppm
3-iodo-2-propynyl butyl carbamate	Butyl-3-iodo-2-propynylcarbamate	3.3 mg/m3	36 mg/m3	220 mg/m3

Ingredient	Original IDLH	Revised IDLH
ethylbenzene	2,000 ppm	800 [LEL] ppm
xylene	1,000 ppm	900 ppm
1,2,4-trimethyl benzene	Not Available	Not Available
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm
dibutyl phthalate	9,300 mg/m3	4,000 mg/m3
solvent naphtha petroleum, heavy aromatic	Not Available	Not Available
diethylene glycol monomethyl ether	Not Available	Not Available
3-iodo-2-propynyl butyl carbamate	Not Available	Not Available

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(2-benzothiazoylthio)butanedioic acid

Not Available

Not Available

MATERIAL DATA

For dibutyl phthalate:

In animal testing the reproductive system has been the prime target.

Exposure controls

Appropriate engineering controls	CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.	
Personal protection		
Eye and face protection	► Safety glasses with side shields.	
Skin protection	See Hand protection below	
Hands/feet protection	► Wear chemical protective gloves, e.g. PVC.	
Body protection	See Other protection below	
Other protection	► Overalls.	
Thermal hazards	Not Available	

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

'Forsberg Clothing Performance Index'.

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

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Material	СРІ
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
TEFLON	С
VITON	С
VITON/BUTYL	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

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

Respiratory protection

Type A-P Filter of sufficient capacity.

Where the concentration of gas/particulates in the breathing zone,approaches or exceeds the 'Exposure Standard' (or ES), respiratoryprotection is required.

Degree of protection varies with both face-piece and Class offilter; 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 P2	-	A-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	A-2 P2	A-PAPR-2 P2
up to 50 x ES	-	A-3 P2	-
50+ x ES	-	Air-line**	-

 $^{^{\}star}$ - Continuous-flow; $\ ^{\star\star}$ - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling pointorganic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Thin brown liquid with strong solvent odour

Physical state Liquid Relative density (Water = 1) 0.945

^{^ -} Full-face

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Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	423
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	157	Molecular weight (g/mol)	Not Available
Flash point (°C)	50	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7.4	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.9	Volatile Component (%vol)	90
Vapour pressure (kPa)	0.87	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	3.8	VOC g/L	776

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	► Unstable in the presence of incompatible materials.
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

1			
information	on	toxicological	errects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption.
Eye	Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.
Chronic	On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.

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	Not Available	Not Avai	lable
	TOXICITY		IRRITATION
	Dermal (rabbit) LD50: ca.15432.6 mg/kg ^[1]		Eye (rabbit): 500 mg - SEVERE
ethylbenzene	Inhalation (mouse) LC50: 35.5 mg/L/2H ^[2]		Skin (rabbit): 15 mg/24h mild
	Inhalation (rat) LC50: 55 mg/L/2H ^[2]		
	Oral (rat) LD50: 3500 mg/kgd ^[2]		
	TOXICITY	IRRI	TATION
	Dermal (rabbit) LD50: >1700 mg/kg ^[2]	Eye	(human): 200 ppm irritant
xylene	Inhalation (rat) LC50: 5000 ppm/4h ^[2]	Eye	(rabbit): 5 mg/24h SEVERE
	Oral (rat) LD50: 4300 mg/kgt ^[2]	al (rat) LD50: 4300 mg/kgt ^[2] Eye (rabbit): 87 mg mild	
		Skin (rabbit):500 mg/24h moderate	

1,2,4-trimethyl benzene

TOXICITY	IRRITATION
dermal (rat) LD50: 3504 mg/kg ^[1]	Not Available

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Inhalation (rat) LC50: 18 mg/L/4hd^[2]

for petroleum:

SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC

		innai	ation (rat) LC50: 18 mg/L/4nd ^{c-3}			
		Oral	(rat) LD50: ca.3504 mg/kg ^[1]			
				RITATION		
				* [Union Carbide]		
ethylene glycol monobutyl e	ther		(//////	re (rabbit): 100		
		Oral	(1,7)	re (rabbit): 100 i		
			Sk	in (rabbit): 500	mg, open; mil	d
		TOY	ICITY			IRRITATION
			rmal (rabbit) LD50: >21000 mg/kg ^[2]			Not Available
dibutyl phtha	late		ation (mouse) LC50: 25 mg/L/2H ^[2]			
			(rat) LD50: 6279 mg/kg ^[1]			
		Orai	(10) 2000. 0270 Highly			
		тох	ICITY		IRRITATION	I
solvent naphtha petrole	um	derm	al (rat) LD50: >2000 mg/kg ^[1]		[PETROFIN]
heavy arom			ation (rat) LC50: >0.59 mg/L/4H ^[2]		Eye (rabbit):	Irritating
		Oral	(rat) LD50: >2000 mg/kg ^[1]			
		тох	ICITY	IRRITATIO	N	
diethylene glycol monome	thyl	Dem	Dermal (rabbit) LD50: 2525 mg/kge ^[2]		* = Dow CCINFO	
	ther	Oral	al (rat) LD50: 4040 mg/kg ^[2] Eye (rabbit): 500 r): 500 mg mod	lerate
				Eye (rabbit): 500 mg/24h	mild
		тох	ICITY	IRRITATIO	N	
3-iodo-2-propynyl b	-	derm			and Troy Cher	m.WPL]
carban	nate	Inhal	alation (rat) LC50: 0.680 mg/l/4h *g ^[2] Eye		g	
Oral		Oral	ll (rat) LD50: 1056 mg/kg²t ^[2] Skin: Slight irritant		irritant	
				IRRITATIO		
(2-benzothiazoylthio)butaned	lioic		TOXICITY			-*
	acid		dermal (rat) LD50: >2000 mg/k ** ^[2]		Eye (rabbit): non-irritating *	
		Oral	(rat) LD50: >5000 mg/kg** ^[2] Skin (rabbit): non-irrit		it): non-irritatir	19 "
Legend:			ained from Europe ECHA Registered Substances - Acute toxicity 2.* Value on RTECS - Register of Toxic Effect of chemical Substances	obtained from n	nanufacturer's	SDS. Unless otherwise specified data
	OXU	aotoa ne	THE TOTAL CONTROL CONT			
RESENE KWILA TIN	IBER S	STAIN	For trimethylbenzenes:			
Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure.						
ETHYLBENZENE Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) re			usculoskeletal system) recorded.			
XYLENE Reproductive effector in rats						
1,2,4-TRIMETHYL BENZENE Asthma-like symptoms may continue for months or even years after exposure to the material ceases. Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene			25 1,3,5-trimethylbenzene			
ETHYLENE GLYCOL M		UTYL THER	NOTE: Changes in kidney, liver, spleen and lungs are observed in anir ASCC (NZ) SDS	nals exposed to	high concent	rations of this substance by all routes. **
DIBUTYL F	PHTHA	LATE	For dibutyl phthalate (DBP): In studies on rats, DBP is absorbed through the skin, although in <i>in vit</i> skin to this compound.	<i>ro</i> studies huma	an skin has bee	en found to be less permeable than rat

This product contains benzene which is known to cause acute myeloid leukaemia and n-hexane which has been shown to metabolize to compounds which are neuropathic.

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DIETHYLENE GLYCOL MONOMETHYL ETHER The material may produce moderate eye irri			ritation leading to inflammation.		
3-IODO-2-PROPYNYL BUTYL CARBAMATE for 3-iodo-2-propynyl butyl carbamate (I Acute toxicity: Acceptable acute toxici			•	except eye irritation.	
(2-BENZOTHIAZOYLTHIO)BU	TANEDIOIC ACID	The following information refers to contact allergens as a group and may not be specific to this product. Non-mutagenic (Ames Test) * * Halox MSDS			
ETHYLBENZENE & ETHYLENE GLYCOL MC		The material may produce severe irritation to the eye causing pronounced inflammation.			
Acute Toxicity	~		Carcinogenicity	*	
Skin Irritation/Corrosion	v		Reproductivity	✓	
Serious Eye Damage/Irritation	· ·		STOT - Single Exposure	*	
Respiratory or Skin sensitisation	The state of the s		STOT - Repeated Exposure	0	
Mutagenicity	0		Aspiration Hazard	0	

Legend:

✓ - Data required to make classification available
 X - Data available but does not fill the criteria for classification
 ○ - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

NOT AVAILABLE

Ingredient	Endpoint	Test Duration	Effect	Value	Species	BCF
ethylbenzene	Not Available					
xylene	Not Available					
1,2,4-trimethyl benzene	Not Available					
ethylene glycol monobutyl ether	Not Available					
dibutyl phthalate	Not Available					
solvent naphtha petroleum, heavy aromatic	Not Available					
diethylene glycol monomethyl ether	Not Available					
3-iodo-2-propynyl butyl carbamate	Not Available					
(2-benzothiazoylthio)butanedioic acid	Not Available					

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
1,2,4-trimethyl benzene	LOW (Half-life = 56 days)	LOW (Half-life = 0.67 days)
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
dibutyl phthalate	LOW (Half-life = 23 days)	LOW (Half-life = 3.08 days)
diethylene glycol monomethyl ether	LOW	LOW
3-iodo-2-propynyl butyl carbamate	HIGH	HIGH
(2-benzothiazoylthio)butanedioic acid	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
ethylbenzene	LOW (BCF = 79.43)
xylene	MEDIUM (BCF = 740)
1,2,4-trimethyl benzene	LOW (BCF = 275)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)
dibutyl phthalate	LOW (BCF = 176)

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solvent naphtha petroleum, heavy aromatic	LOW (BCF = 159)
diethylene glycol monomethyl ether	LOW (BCF = 18)
3-iodo-2-propynyl butyl carbamate	LOW (LogKOW = 2.4542)
(2-benzothiazoylthio)butanedioic	LOW (LogKOW = 1.6357)

Mobility in soil

Ingredient	Mobility
ethylbenzene	LOW (KOC = 517.8)
1,2,4-trimethyl benzene	LOW (KOC = 717.6)
ethylene glycol monobutyl ether	HIGH (KOC = 1)
dibutyl phthalate	LOW (KOC = 1460)
diethylene glycol monomethyl ether	HIGH (KOC = 1)
3-iodo-2-propynyl butyl carbamate	LOW (KOC = 365.3)
(2-benzothiazoylthio)butanedioic acid	LOW (KOC = 2648)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

▶ Containers may still present a chemical hazard/ danger when empty.

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant



HAZCHEM •3Y

Land transport (UN)

UN number	1263
Packing group	III
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Environmental hazard	No relevant data
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Special precautions for user	Special provisions 163;223;367 Limited quantity 5 L

Air transport (ICAO-IATA / DGR)

UN number	1263
Packing group	III
UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)
Environmental hazard	No relevant data

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Transport hazard class(es)	ICAO/IATA Class	3	
	ICAO / IATA Subrisk	Not Applicable	
	ERG Code	3L	
		·	
Special precautions for user	Special provisions		A3 A72 A192
	Cargo Only Packing Instructions		366
	Cargo Only Maximum Qty / Pack		220 L
	Passenger and Cargo Packing Instructions		355
	Passenger and Cargo Maximum Qty / Pack		60 L
	Passenger and Cargo Limited Quantity Packing Instructions		Y344
	Passenger and Cargo Limited Maximum Qty / Pack		10 L

Sea transport (IMDG-Code / GGVSee)

	· · · · · · · · · · · · · · · · · · ·
UN number	1263
Packing group	III
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
Environmental hazard	Not Applicable
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable
Special precautions for user	EMS Number F-E , S-E Special provisions 163 223 955 Limited Quantities 5 L

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	ethylbenzene	Υ
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	xylene	Υ
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	1,2,4-trimethyl benzene	Y, X
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	dibutyl phthalate	х

SECTION 15 REGULATORY INFORMATION

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

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

HSR Number	Group Standard
HSR002669	Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2006

ETHYLBENZENE(100-41-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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

New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

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

Chemicals

Chemicals

1,2,4-TRIMETHYL BENZENE(95-63-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Inventory of Chemicals (NZIoC)

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ETHYLENE GLYCOL MONOBUTYL ETHER(111-76-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

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

Chemicals

DIBUTYL PHTHALATE(84-74-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Workplace Exposure Standards (WES)

Chemicais

New Zealand Inventory of Chemicals (NZIoC)

SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC(64742-94-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Inventory of Chemicals (NZIoC)

DIETHYLENE GLYCOL MONOMETHYL ETHER(111-77-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Inventory of Chemicals (NZIoC)

3-IODO-2-PROPYNYL BUTYL CARBAMATE(55406-53-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) $\mbox{Act}\mbox{ - Classification of}$

New Zealand Inventory of Chemicals (NZIoC)

Chemicals

(2-BENZOTHIAZOYLTHIO)BUTANEDIOIC ACID(95154-01-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Inventory of Chemicals (NZIoC)

Chemicals

Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers	
3.1C	500 L in containers greater than 5 L	250 L	
	1500 L in containers up to and including 5 L	250 L	

Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (diethylene glycol monomethyl ether; 3-iodo-2-propynyl butyl carbamate; xylene; ethylbenzene; 1,2,4-trimethyl benzene; (2-benzothiazoylthio)butanedioic acid; solvent naphtha petroleum, heavy aromatic; ethylene glycol monobutyl ether; dibutyl phthalate)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Υ
Korea - KECI	N ((2-benzothiazoylthio)butanedioic acid)
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
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

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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