Design Pine

ITI (Aust) Pty Ltd

Chemwatch: 5377-58

Chemwatch Hazard Alert Code: 3

Issue Date: 20/01/2020 Print Date: 20/01/2020 S.GHS.AUS.EN

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

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

Product Identifier

Product name	Design Pine
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses	Protect timber from attack by termites, insects and fungal decay. The treated timber is used for exterior building and structural applications in above ground situations. Above ground applications for residential and commercial building. Pergolas, carports, handrails, barge boards, fascia, privacy screens.
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Details of the supplier of the safety data sheet

Registered company name	ITI (Aust) Pty Ltd					
Address	59 Dunheved Circuit, St Marys NSW 2760 Australia					
Telephone	+61 2 8805 5000					
Fax	+61 2 9623 0492					
Website	www.designpine.com					
Email	danek@iti.net.au					

Emergency telephone number

Association / Organisation	Chemwatch
Emergency telephone numbers	03 9573 3112
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

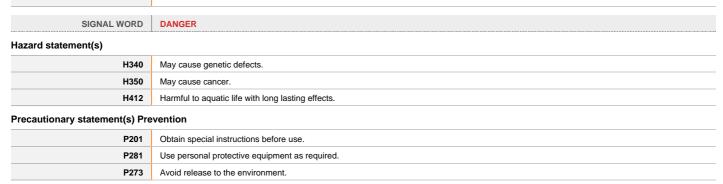
Classification of the substance or mixture

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

Poisons Schedule	Not Applicable				
Classification ^[1]	Germ cell mutagenicity Category 1B, Carcinogenicity Category 1B, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3				
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI				

Label elements





Precautionary statement(s) Response

D200, D212	IF expected or concerned: Get medical advice/attention
P308+P313	IF exposed or concerned: Get medical advice/attention.

Design Pine

Precautionary statement(s) Storage

P405

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Store locked up.

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name					
Not Available	>98	Radiata pine wood					
Not Available	<2	impregnation residuals, as					
107534-96-3	^	tebuconazole					
60207-90-1	^	propiconazole					
52645-53-1	^	permethrin					
8002-74-2	^	paraffin wax					
55406-53-6	^	3-iodo-2-propynyl butyl carbamate					
64742-95-6	<10	naphtha petroleum, light aromatic solvent					
Not Available		In use, may generate wood dust softwood					
Not Available		THIS REPORT IS FOR TREATED PRODUCT ONLY					

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations. If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	Brush off dust. In the event of abrasion or irritation of the skin seek medical attention.
Inhalation	 If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.
Ingestion	 Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid exposure to excessive heat and fire.					
Advice for firefighters						
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Use water delivered as a fine spray to control the fire and cool adjacent area.					
Fire/Explosion Hazard	Wood products do not normally constitute an explosion hazard Mechanical or abrasive activities which produce wood dust, as a by-product, may present a severe explosion hazard if a dust cloud contacts an ignition source Hot humid conditions may result in spontaneous combustion of accumulated wood dust Partially burned or scorched wood dust can explode if dispersed in air. Combustible. Will burn if ignited.					
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	Pick up. Refer to major spills.
Major Spills	Pick up. Secure load if safe to do so. Bundle/collect recoverable product.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling					
Safe handling	Use gloves when handling product to avoid splinters.				
Other information	► Keep dry				
Conditions for safe storage, in	cluding any incompatibilities				
Suitable container	▶ Generally not applicable.				
Storage incompatibility	► Keep dry				

х + +

Х - Must not be stored together

0 - May be stored together with specific preventions

+ - May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA		STEL	Peak	Notes	
Australia Exposure Standards	paraffin wax	Paraffin wax (fume)	2 mg/m3		Not Available	Not Available	Not Available	
EMERGENCY LIMITS								
Ingredient	Material name			TEEL	L-1	TEEL-2	TEEL-3	
paraffin wax	Paraffin, n-			6 mg	/m3	66 mg/m3	400 mg/m3	

3-iodo-2-propynyl butyl carbamate	Butyl-3-iodo-2-propynylcarbamate	3.3	3 mg/m3	36 mg/m3	220 mg/m3	
Ingredient	Original IDLH		Revised IDLH			
tebuconazole	Not Available	Not Available		Not Available		
propiconazole	Not Available	Not Available		Not Available		
permethrin	Not Available	Not Available		Not Available		
paraffin wax	Not Available		Not Available			
3-iodo-2-propynyl butyl carbamate	Not Available		Not Available Not Available			
naphtha petroleum, light aromatic solvent	Not Available		Not Available			

OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
tebuconazole	E	≤ 0.01 mg/m³	
propiconazole	E	≤ 0.1 ppm	
permethrin	E	≤ 0.01 mg/m³	
3-iodo-2-propynyl butyl carbamate	E	≤ 0.01 mg/m³	
naphtha petroleum, light aromatic solvent	E	≤ 0.1 ppm	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a		

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

Appropriate engineering controls	Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls car be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant: Ype of Contaminant:				
	factors of 10 or more when extraction systems are installed of	or used.			
Personal protection					
Eye and face protection	When sawing, machining or sanding use - Safety glasses wit	h side shields.			
Skin protection	See Hand protection below				
Hands/feet protection	 Protective gloves eg. Leather gloves or gloves with Leath Safety footwear 	her facing			
Body protection	See Other protection below				
Other protection	No special equipment needed when handling small quantities OTHERWISE: • Overalls. • Barrier cream.	S.			

Respiratory protection

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

Eyewash unit.

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P3	-	A-PAPR-AUS / Class 1 P3
up to 50 x ES	-	A-AUS / Class 1 P3	-
up to 100 x ES	-	A-2 P3	A-PAPR-2 P3 ^

^ - Full-face

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

Avoid generating and breathing dust.

Effective dust extraction and good ventilation is required when using cutting, shaping or sanding tools. Wear a disposable dust mask AS/NZS 1715:2009 class P1 or P2 when machining.

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Information on basic physical and chemical properties

Appearance	Solid timber wood sawn, finger jointed or laminated in all sizes, impregnated with liquid treatment ; can give off spirit solvent odour after treatment. THIS CHEMWATCH REPORT IS FOR TREATED PRODUCT ONLY.			
Physical state	Manufactured	Relative density (Water = 1)	0.45-0.65	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	265	
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable	
Initial boiling point and boiling range (°C)	Not Applicable	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 Applicable	
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable	
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable	
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable	

SECTION 10 STABILITY AND REACTIVITY

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

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Not normally a hazard due to physical form of product. Generated dust may be discomforting		
Ingestion	Ingestion of sawdust may cause nausea, abdominal pain, vomiting or diarrhoea. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments		
Skin Contact	The dust is discomforting and mildly abrasive to the skin and may There is some evidence to suggest that this material can cause in		
Еуе	The dust may produce eye discomfort causing smarting, pain and There is some evidence to suggest that this material can cause ey		
Chronic	 Wood dust may cause skin and respiratory sensitisation. Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations. Various woods are able to induce allergies, both of the immediate onset type in woodwork which causes a respiratory syndrome, and of the delayed type which results in eczema from exposure to dusts and direct contact. Cross-reaction is common. 		
Design Pine	TOXICITY	IRRITATION	
Design Pine	Not Available	Not Available	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >5000 mg/kg ^[2]	Non-irritating to eyes, skin. *	
tebuconazole	Inhalation (rat) LC50: 0.371 mg/l/4H ^[2]		
	Oral (rat) LD50: 3352 mg/kg ^[2]		
	тохісіту	IRRITATION	
	dermal (rat) LD50: >4000 mg/kg ^[2]	Eye (non-irritating) *	
propiconazole	Inhalation (rat) LC50: 1.264 mg/l/4H ^[2]	Skin (non-irritating) *	
	Oral (rat) LD50: 1517 mg/kg ^[2]		

	TOXICITY	IRRITATION
permethrin	dermal (rat) LD50: 1750 mg/kg ^[2]	Skin (rabbit): 500 mg/24h - mild
	Oral (rat) LD50: 383 mg/kg ^[2]	
	TOXICITY	IRRITATION
paraffin wax	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100 mg/24 hr-mild
	Oral (rat) LD50: >3750 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
		Skin (rabbit): 500 mg/24 hr-mild
		Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
	dermal (rat) LD50: >2000 mg/kg ^[2]	Eye: adverse effect observed (irreversible damage) ^[1]
3-iodo-2-propynyl butyl	Inhalation (rat) LC50: 0.680 mg/l/4h*g ^[2]	Eye: Irritating
carbamate	Oral (rat) LD50: 1056 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
		Skin: Slight irritant
	TOXICITY	IRRITATION
naphtha petroleum, light	Dermal (rabbit) LD50: >1900 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
aromatic solvent	Inhalation (rat) LC50: >7331.62506 mg/l/8h* ^[2]	Skin: adverse effect observed (irritating) ^[1]
	Oral (rat) LD50: >4500 mg/kg ^[1]	
TEBUCONAZOLE	specified data extracted from RTECS - Register of Toxic Effe	ct of chemical Substances ng/kg " for mice, 20 mg/kg " ADI 0.03 mg/kg b.w. * Toxicity Class WHO III; EPA III *
PROPICONAZOLE		ty Class WHO III NOEL for dogs 50 ppm (1.9 mg/kg b.w. daily) *
PERMETHRIN	vesicles, scaling and thickening of the skin. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in a	eated exposure and may produce on contact skin redness, swelling, the production animal testing. 2960 mg/kg * cis/trans ratio: 40:60 cis/trans ratio: 20:80 ADI: 0.05 mg/kg for nomina
	small quantity will pass through undigested. Refined waxes are used widely in cosmetic surgery over man use. However, occasionally there are reports of adverse effect	ny years and this demonstrates their low toxicity; many guidelines exist for their saf

refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size. Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. Numerous tests have shown that a lubricating base oil's mutagenic and carcinogenic potential correlates with its 3-7 ring polycyclic aromatic compound (PAC) content, and the level of DMSO extractables (e.g. IP346 assay), both characteristics that are directly related to the degree/conditions of processing. For highly and severely refined distillate base oils:

In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative. The effects of repeated exposure vary by species; in animals, effects to the testes and lung have been observed, as well as the formation of granulomas. In animals, these substances have not been found to cause reproductive toxicity or significant increases in birth defects. They are also not considered to cause cancer, mutations or chromosome aberrations.

Tumorigenic in rats

3-IODO-2-PROPYNYL BUTYL CARBAMATE

For 3-iodo-2-propynyl butyl carbamate (IPBC):

Acute toxicity studies with IPBC show low toxicity except severe eye irritation. Animal testing showed that extended exposure may cause decreased weight gain and increased red cell and eosinophil counts. One study showed the possibility of increased breast cancer on extended contact.

	While it is toxic to the cell at high doses, it does not seem to cause mutations or ge #551isofen	irair uailiaye.
	For isofenphos: Isofenphos suppresses cholinesterase activity in the bloodstream. It has the poten cause abnormalities associated with toxicity to the embryo, however it has not bee eliminated mostly in the urine.	
NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT	Asthma-like symptoms may continue for months or even years after exposure to the known as reactive airways dysfunction syndrome (RADS) which can occur after excriteria for diagnosing RADS include the absence of previous airways disease in a asthma-like symptoms within minutes to hours of a documented exposure to the initian-like symptoms within minutes to hours of a documented exposure to the initiating substance. On the oti result of exposure due to high concentrations of irritating substance. On the oti result of exposure due to high concentrations of irritating substance. On the oti result of exposure due to high concentrations, cough and mucus production. For trimethylbenzenes: Absorption of 1.2,4-trimethylbenzene occurs after exposure by swallowing, inhalati contact are the most important routes of absorption; whole-body toxic effects from caused by the chemical generally leads to quick removal. The substance is fat-solublood cells in the bloodstream. It is excreted from the body both by exhalation and Acute toxicity: Direct contact with liquid 1,2,4-trimethylbenzene is irritating to the ski ung inflammation. Breathing high concentrations of the chemical vapour causes her trimethylbenzene is irritating to the skin and inhalation of the vapour causes chemi vessels, redness and irritation. Nervous system toxicity: 1,2,4-trimethylbenzene drowsiness. Subacute/chronic toxicity: Long-term exposure to solvents containing 1,2,4-trimethyl of the bronchi. Painters that worked for several years with a solvent containing 50% showed nervousness, tension and anxiety, asthmatic bronchitis, anaemia and char trace amounts of benzene. Animal testing showed that inhaling trimethylbenzene rincrease in neutrophils. Genetic toxicity: Animal testing shows that seni-lethal concentrations and doses variahal triation range from 6000 to 10000 mg/cubic metre for C9 aromatic naphtha and respectively. Irritating to the eye, and have the potential to irritate the airway and it sensitizes skin. Repeated dose toxicity: Animal studies show	bosure to high levels of highly irritating compound. Main non-atopic individual, with sudden onset of persistent tant. Other criteria for diagnosis of RADS include a reversible on methacholine challenge testing, and the lack of minimal ating inhalation is an infrequent disorder with rates related to iter hand, industrial bronchitis is a disorder that occurs as a a) and is completely reversible after exposure ceases. The on, or skin contact. In the workplace, inhalation and skin skin absorption are unlikely to occur as the skin irritation ble and may accumulate in fatty tissues. It is also bound to re in the urine. In, and breathing the vapour is irritating to the airway, causing adache, fatigue and drowsiness. In humans, liquid 1,2,4- cal pneumonitis. Direct skin contact causes dilation of blood term. Exposure to solvent mixtures in the workplace containing (benzene may cause nervousness, tension and inflammation of 1,2,4-trimethylbenzene and 30% 1,3,5-trimethylbenzene ges in blood clotting; blood effects may have been due to lay alter blood counts, with reduction in lymphocytes and an s or chromosomal aberrations. 1,2,4-trimethylbenzene caused reproductive toxicity. 1,2,4-trimethylbenzene caused reproductive toxicity. 1,2,4-trimethylbenzene caused reproductive toxicity. 1,2,4-trimethylbenzene caused reproductive toxicity. 1,2,4-trimethylbenzene singlethal concentrations for 18000-24000 mg/cubic metre for 1,2,4- and 1,3,5-TMB, drocarbon solvents are mildly to moderately irritating to the cause depression of breathing rate. There is no evidence that aromatic hydrocarbon solvents is slight. Similarly, oral isomers. 1 was found in animal and laboratory testing.
TEBUCONAZOLE & PROPICONAZOLE & PERMETHRIN	[* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Council]	Edition, Editor Clive Tomlin, 1994, British Crop Protection
PROPICONAZOLE & PERMETHRIN	The following information refers to contact allergens as a group and may not be sp Contact allergies quickly manifest themselves as contact eczema, more rarely as u eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed involve antibody-mediated immune reactions. The significance of the contact allerg distribution of the substance and the opportunities for contact with it are equally im distributed can be a more important allergen than one with stronger sensitising pot clinical point of view, substances are noteworthy if they produce an allergic test reac	rticaria or Quincke's oedema. The pathogenesis of contact ype. Other allergic skin reactions, e.g. contact urticaria, en is not simply determined by its sensitisation potential: the portant. A weakly sensitising substance which is widely ential with which few individuals come into contact. From a
Acute Toxicity	× Carcinog	nicity 🗸
Skin Irritation/Corrosion	× Reprodu	
Serious Eye Damage/Irritation	× STOT - Single Exp	
Respiratory or Skin sensitisation	X STOT - Repeated Exp	

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Design Pine	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE SOURCE
	Not Available	Not Available	Not Available	Not Not Available Available
tebuconazole	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE SOURCE
	LC50	96	Fish	0.122mg/L 3
	EC50	48	Crustacea	4.0mg/L 4
	EC50	96	Algae or other aquatic plants	0.127mg/L 3

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	0.83mg/L	4
propiconazole	EC50	48	Crustacea	3.2mg/L	4
	EC50	72	Algae or other aquatic plants	0.0008mg/L	4
	NOEC	96	Crustacea	0.5mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	Fish 0.00062mg/L	
	EC50	48	Crustacea	0.000112mg/L	4
permethrin	EC50	96	Algae or other aquatic plants	0.005mg/L	3
	BCFD	24	Algae or other aquatic plants	1mg/L	4
	NOEC	96	Crustacea	0.000025mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
paraffin wax	LC50	96	Fish >1-mg/L		2
	EC50	48	Crustacea >10-mg/L		2
	EC50	72	Algae or other aquatic plants	>1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	Fish 0.067mg/L	
3-iodo-2-propynyl butyl	EC50	48	Crustacea	Crustacea 0.04mg/L	
carbamate	EC50	72	Algae or other aquatic plants	0.022mg/L	2
	EC10	72	Algae or other aquatic plants	0.0058mg/L	2
	NOEC	72	Algae or other aquatic plants	0.0046mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	4.1mg/L	2
naphtha petroleum, light aromatic solvent	EC50	48	Crustacea	3.2mg/L	2
aromatic solvent	EC50	72	Algae or other aquatic plants	>1-mg/L	2
	NOEC	72	Algae or other aquatic plants	=1mg/L	1

Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Although treated, the solid wood will decay on ground contact.

DO NOT discharge into sewer or waterways.

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

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
tebuconazole	HIGH	HIGH
permethrin	HIGH	HIGH
3-iodo-2-propynyl butyl carbamate	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
tebuconazole	HIGH (LogKOW = 5.4673)
permethrin	LOW (LogKOW = 7.4267)
3-iodo-2-propynyl butyl carbamate	LOW (LogKOW = 2.4542)

Mobility in soil

Ingredient	Mobility
tebuconazole	LOW (KOC = 20660)
permethrin	LOW (KOC = 178400)
3-iodo-2-propynyl butyl carbamate	LOW (KOC = 365.3)

SECTION 13 DISPOSAL CONSIDERATIONS

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Design Pine

SECTION 14 TRANSPORT INFORMATION			
Labels Required			

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

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

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

TEBUCONAZOLE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5

PROPICONAZOLE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

PERMETHRIN IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

PARAFFIN WAX IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $\,$

GESAMP/EHS Composite List - GESAMP Hazard Profiles

3-IODO-2-PROPYNYL BUTYL CARBAMATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List

Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List

Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $\,$

Chemical Footprint Project - Chemicals of High Concern List

GESAMP/EHS Composite List - GESAMP Hazard Profiles

National Inventory Status

National Inventory

Status

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $\,$

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $\,$

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

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

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

IMO IBC Code Chapter 17: Summary of minimum requirements IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances IMO Provisional Categorization of Liquid Substances - List 1: Pure or technically pure products

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

IMO IBC Code Chapter 17: Summary of minimum requirements IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

Australia - AICS	No (tebuconazole)		
Canada - DSL	No (tebuconazole; propiconazole; permethrin)		
Canada - NDSL	No (3-iodo-2-propynyl butyl carbamate; naphtha petroleum, light aromatic solvent; tebuconazole; propiconazole; permethrin; paraffin wax)		
China - IECSC	No (propiconazole)		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (tebuconazole; propiconazole)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	No (propiconazole)		
USA - TSCA	No (tebuconazole; propiconazole; permethrin)		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - ARIPS	No (propiconazole)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

SECTION 16 OTHER INFORMATION

	22/2/ 10000
Revision Date	20/01/2020
Initial Date	20/01/2020

SDS Version Summary

Version	Issue Date	Sections Updated
2.1.1.1	20/01/2020	Use

Other information

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- PC-TWA: Permissible Concentration-Time Weighted Average
- PC-STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit
- 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
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors BEI: Biological Exposure Index

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