

# OneFortyOne Wood Products

Chemwatch: **5282-99** Version No: **5.1** Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: **10/12/2021** Print Date: **20/04/2023** S.GHS.AUS.EN

#### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	eFortyOne LOSP Optimum Treated Timber			
Chemical Name	Not Applicable			
Synonyms	LOSP H3 TREATED PINE			
Chemical formula	Not Applicable			
Other means of identification	Not Available			

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

Relevant identified uses

Timber. Use according to manufacturer's directions.

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

Registered company name	OneFortyOne Wood Products	
Address	Jubilee Hwy East Mount Gambier SA 5290 Australia	
Telephone	+61 8 8721 2777	
Fax	+61 8 8721 2858	
Website	http://onefortyone.com/	
Email	Nigel.Boyd@onefortyone.com	

#### Emergency telephone number

Association / Organisation	OneFortyOne Wood Products	CHEMWATCH EMERGENCY RESPONSE (24/7)		
Emergency telephone numbers	+61 8 8721 2777 (Mon-Fri 9am to 5pm)	+61 1800 951 288		
Other emergency telephone numbers	Not Available	+61 3 9573 3188		

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

#### **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.

Poisons Schedule	Not Applicable			
Classification <sup>[1]</sup>	[1] Hazardous to the Aquatic Environment Long-Term Hazard Category 2			
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex N				

#### Label elements

Hazard pictogram(s)	
Signal word	Not Applicable
Hazard statement(s)	
H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s) Pre	evention
P273	Avoid release to the environment.

#### Precautionary statement(s) Response

P391 Collect spillage.

### Precautionary statement(s) Storage

#### Not Applicable

#### 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

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	%[weight] Name					
Not Available	>97.5	wood					
52645-53-1	<0.1	permethrin					
60207-90-1	<0.1	propiconazole					
107534-96-3	<0.1	tebuconazole					
Not Available	<1	Ingredients determined not to be hazardous					
Not Available		In use, may generate					
Not Available		wood dust hardwood					
Not Available		wood dust softwood					
Legend:	1. Classified by Chemwatch; 2. C Classification drawn from C&L * I	lassification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. EU IOELVs available					

#### SECTION 4 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> <li>Generally not applicable.</li> </ul>
Skin Contact	<ul> <li>Brush off dust. Seek medical attention in event if irritation.</li> <li>If skin or hair contact occurs:</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 dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure clear passage of breathing.</li> <li>If irritation or discomfort persists seek medical attention.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Not normally a hazard due to physical form of product.</li> </ul>

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- For chronic or short term repeated exposures to pyrethrum and synthetic pyrethroids:
- Mammalian toxicity of pyrethrum and synthetic pyrethroids is low, in part because of poor bioavailability and a large first pass extraction by the liver.
- The most common adverse reaction results from the potent sensitising effects of pyrethrins.
- Clinical manifestations of exposure include contact dermatitis (erythema, vesiculation, bullae); anaphylactoid reactions (pallor, tachycardia, diaphoresis) and asthma. [Ellenhorn Barceloux]
- In cases of skin contact, it has been reported that topical application of Vitamin E Acetate (alpha-tocopherol acetate) has been found to have high therapeutic value, eliminating almost all skin pain associated with exposure to synthetic pyrethroids. [*Incitec*]

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

<ul> <li>Wood articles do         <ul> <li>Wood dusts, how mixture contains d dust is considered vigour of flame pro- The burning of ar pressure build-up moisture content, i</li> <li>Generally, the lar does not escape fr occurs in a collection ignite the dust clouding Wethanical or ab ignition source.</li> <li>Hot humid condition Partially burned of Solid fuels, such involved in this gas wrongly, as smolde closed compartme</li> <li>An airborne concount The sanding or ho fanned into fires or there are significan For dry wood dusts</li> <li>MM M</li> <li>MM</li> <li>MM</li></ul></li></ul>	<ul> <li>Fire Fighting</li> <li>Use water to wet down wood dusts to reduce the dispersion of dust into the air.</li> <li>Remove burned or wet dust to open area, after fire is extinguished, as partially burnt or wet dust may spontaneously ignite.</li> <li>Rake out ashes.</li> <li>Self-contained breathing apparatus (SCBA) is recommended when fighting fire.</li> </ul>
	<ul> <li>Hot humid conditions may result in spontaneous combustion of accumulated wood dust.</li> <li>Partially burned or scorched wood dust can explode if dispersed in air.</li> <li>Wet dust may ignite spontaneously.</li> <li>Solid fuels, such as wood, when subjected to a sufficient heat flux, will degrade, gasify and release vapours. There is little or no oxidation involved in this gasification process and thus it is endothermic. This process is referred to as forced pyrolysis but is sometimes referred to, wrongly, as smoldering combustion. This type of combustion, none initiated, can continue in a low-oxygen environment, even when the fire is in a closed comparitment with low oxygen content.</li> <li>An airborne concentration of 40 grams of dust per cubic meter of air is frequently used as the lower explosive limit (L.E.L) of wood dusts.</li> <li>Thermal oxidative decomposition may produce vapours and gases including carbon monoxide, aldehydes (including formaldehyde), organic acids, cyanides, polycyclic aromatics, and other volatile organic fragments.</li> <li>Common ignition sources include naked flames, faulty or unsuitable electrics and impact sparks.</li> <li>The sanding or hogging of off-cuts containing metal may produce vapours. Consider spark detection and extinguishing devices where there are significant risks.</li> <li>For dry wood dusts: <ul> <li>Moisture Content : less than 5%</li> <li>Particle size: less than 100 micron</li> <li>Dust Explosion Class: Kst1 (some wood dust is KSt2)</li> <li>Minimum Ignition Temperature: 490 deg C.</li> <li>Minimum Explosible Concentration MEC 40-60 g/m3</li> <li>Deflagration Index Kst: 100-150 bar.msec</li> </ul> </li> <li>Combustion products include: <ul> <li>carbon dioxide (CO2)</li> <li>other pryrolysis products typical of burning organic material.</li> <li>May emit poisonous furmes.</li> <li>May emit poisonous furmes.</li> <li>Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging r</li></ul></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>Secure load if safe to do so.</li> <li>Bundle/collect recoverable product.</li> <li>Collect remaining material in containers with covers for disposal.</li> </ul>
Major Spills	<ul> <li>Clean up all spills immediately.</li> <li>Wear protective clothing, safety glasses, dust mask, gloves.</li> <li>Secure load if safe to do so. Bundle/collect recoverable product.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Water may be used to prevent dusting.</li> <li>Collect remaining material in containers with covers for disposal.</li> <li>Flush spill area with water.</li> </ul>

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

### Precautions for safe handling

Other information    Store away from incompatible materials.
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#### Conditions for safe storage, including any incompatibilities

Suitable container	Usually stored in bulk. Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.
Storage incompatibility	Avoid reaction with oxidising agents

#### **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	wood dust hardwood	Wood dust (certain hardwoods such as beech & oak)	1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	wood dust softwood	Wood dust (soft wood)	5 mg/m3	10 mg/m3	Not Available	Not Available

Emergency Limits					
Ingredient	TEEL-1	TEEL-2		TEEL-3	
OneFortyOne LOSP Optimum Treated Timber	Not Available	Not Available		Not Available	
Ingredient	Original IDLH		Revised IDLH		
permethrin	Not Available		Not Available		
propiconazole	Not Available		Not Available		
tebuconazole	Not Available		Not Available		
wood dust hardwood	Not Available		Not Available		
wood dust softwood	Not Available	Not Available		Not Available	

Occupational Exposure	Banding			
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
permethrin	D	> 0.01 to ≤ 0.1 mg/m³		
propiconazole	E	≤ 0.1 ppm		
tebuconazole	E	≤ 0.01 mg/m³		
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		

range of exposure concentrations that are expected to protect worker health.

### Exposure controls

Appropriate engineering controls	<ul> <li>Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.</li> <li>Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.</li> <li>For wood dusts: <ul> <li>Significant accumulations of fine particles of wood dust can also be a fire and explosion hazard in the workplace. Check that the design and installation of dust control equipment incorporates explosion precautions. In particular look at the location of collection equipment and the need for enclosure and/or explosion relief.</li> <li>Keep floors free and clear from wood chips and dust. Pay particular attention to areas around machines and on or near heating units.</li> <li>The sanding or hogging of off-cuts containing metal may produce friction sparks, which can cause sawdust to smoulder and subsequently be</li> </ul> </li> </ul>

Continued...

	fanned into fires or explosions. Use dedicated collection systems for these operations. Consider spark detection and extinguishing devices where there are significant risks. • Hot work involving the careless use of welding or flame-cutting equipment has resulted in many incidents. To prevent this, plant should be
	isolated and thoroughly cleaned before work starts. Use cold cutting methods whenever possible. Electrical equipment should be sited away from dusty areas. If this is not practicable, ensure it is adequately protected.
	There are three main types of system for collecting wood waste and as a result reduce the possibility of worker exposure and possible dust explosions.
	One or more woodworking machines are exhaust ventilated to a nearby collection unit within the workshop which does not form part of any other exhaust ventilation system.
	• Many (perhaps all) of the woodworking machines are ventilated to a collection unit, which can be some distance from the machines and may be inside or outside the workshop.
	· One or more woodworking machines are exhaust ventilated to a nearby collection unit. These units deliver the wood waste into a larger
	collection unit, usually outside the workshop. This is known as a 'through flow system. Collection units should normally be sited outside, away from areas where there may be people. If units have to be indoors, precautions will depend on the size of the collector; the size and construction of the room it is in; the number of people nearby; and how near they are to
	walkways and combustible materials. To avoid the risk from secondary explosion or fire, it is essential to enforce good housekeeping practices to prevent the accumulation of wood dust within the building, eg a formal cleaning regime using appropriate vacuums fitted with HEPA-type filters.
	For unenclosed sock collectors (<0.5 m3/s capacity) These would quickly disintegrate if the contents were ignited, but would not produce high explosion pressures or widespread effects. Fire risks
	may exist so, if unenclosed, do not position them within 3 m of workers, combustible materials or walkways. Alternatively, provide a suitable baffle or deflector plate or enclosure.
	For unenclosed sock collectors (0.5–2.5 m3/s capacity) Ignition of wood dust can lead to a jet of flame at head height, but an explosion is not likely. Where such collectors must remain within the
	workroom, provide one of the following precautions: Total enclosure within a strong metal cabinet with either an air outlet large enough in area to act as explosion relief or explosion vents. Outlets or
	vents should preferably discharge to a safe place outside the workroom or, if inside, discharge at least above head height. A baffle or deflector plate made of non-combustible material to direct flames or burning material to a safe place.
	Ensure the fan can be turned off from a safe place if a fire starts in the filter. A 3 m separation between the filter and regularly occupied locations is likely to be adequate to protect employees.
	For unenclosed sock collectors (>2.5 m3/s capacity)
	Site these outside or enclose them in a strong cabinet fitted with explosion vents that discharge to a safe place. For enclosed sock or fabric filter collectors (<0.5 m3/s capacity)
	The top of the enclosure may be open as long as it discharges to a safe place, eg above head height. For enclosed sock or fabric filter collectors (0.5–2.5 m3/s)
	Total enclosure within a strong metal cabinet with either an air outlet large enough in area to act as explosion relief or explosion vents. Outlets or vents should preferably discharge to a safe place outside the workroom or, if inside, discharge at least above head height. For enclosed sock or fabric filter collectors (>2.5 m3/s)
	The enclosure should be strong with explosion vents that discharge to a safe place. <b>Cyclones</b>
	Well-made cyclones of less than 0.5 m3/s volume (rare in woodworking) do not usually require explosion relief panels. Larger low-efficiency cyclones usually have large enough air outlets to act as an explosion vent, but the need for additional explosion venting should be assessed. Larger high-efficiency cyclones do not usually have large enough air outlets to act as effective explosion vents and so additional venting will be necessary. Where cyclone air outlets discharge to an after filter, both the cyclone and the after filter will need explosion-relief panels. Bins or hoppers
	Where used to store explosible wood waste, these will require explosion relief appropriate to their volume. They should preferably be outdoors but, if indoors, additional explosion relief may be required on the building itself. There should also be a safe system of work for emptying bins and hoppers.
	Interconnected plant Take precautions to prevent an explosion spreading between interconnected units of plant, such as collectors, cyclones, filters and incinerators. Collectors should discharge their collected wood waste through an explosion choke, eg a rotary valve, or directly into strong metal containers clamped firmly to the discharge outlets. Where rotary valves are intended to act as explosion chokes, they must be certified as explosion protection devices.
Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>When sawing, machining or sanding use:</li> <li>Safety glasses with side shields.</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</li> </ul>
	a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> </ul>
	Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
Body protection	See Other protection below

Always wash hands prior to going to the toilet since some wood dust may irritate the genitals and anus.

Other protection

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Always wash hands prior to eating.

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

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

#### ^ - Full-face

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

Respiratory protection not normally required due to the physical form of the product.

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

	Disposable respirator	Re-usable respirator	Powered respirator
All woodworking operations eg use of routers, lathes, planers, saws and vertical spindle moulders (VSMs)	Type P2 filter for low residual dust levels for lower risk woods such as pine Type P3 filter for higher residual dust levels such as when sanding (hand, disc, bobbin, pad etc.). Also for all work involving more toxic woods such as hard woods, Western red cedar and MDF	Type P2 filter fitted to either a half mask or full face mask of Class 1 or 2 Type P3 filter fitted to either a half mask or full face mask of Class 2 Note: A combined organic vapour filter Type A (organic), either Class 1 or 2, will provide protection against any formadehyde vapours present from MDF	Lightweight powered hood visor or helmet of Type TH1 equivalent protection to Type P2 filter Lightweight powered visor or helmet with Type TH2 equivalent to Type P3 filter
Changing dust collection bags on simple recirculating dust collectors in the workroom	Type P3 Filter	Type P3 filter fitted to either a half mask or full face mask of Class 2	Lightweight powered visor or helmet of Type TH2 equivalent to Type P3 filter
Entry into dust collection rooms/ vaults Entry into very dusty filter galleries for bag changing Work inside heavily contaminated ducts Ensure none of these are confined spaces (oxygen deficient atmosphere)	Disposable respirators not suitable	Type P3 filter fitted to full face mask of Class 2	Lightweight powered hood, visor or helmet of Type TH2 equivalent to Type P3 filter

#### **SECTION 9** Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Dressed or natural timber with a slight solvent odour; insoluble in water. THIS CHEMWATCH REPORT IS FOR TREATED PRODUCT ONLY.		
Physical state	Manufactured	Relative density (Water = 1)	Not Applicable
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	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 Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	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 Available

### **SECTION 10 Stability and reactivity**

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

Hazardous decomposition products

See section 5

# **SECTION 11 Toxicological information**

	Net represelles a barrand due to abusised forms of another t		
Inhaled	Not normally a hazard due to physical form of product. The dust may be discomforting The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of the material, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Wood dust may cause nasal dryness, irritation and obstruction of the respiratory system, coughing, wheezing, and sneezing. Inhalation of hardwood dusts may decrease the ability of the nose to clear particles, causing any wood dust in the nose to remain longer in the nasal cavity. Both the type of wood what is being done to the wood to generate the wood dust have a big impact on the dust s hazards. For instance, asthma cases have been reported for workers using western red cedar, and pneumonitis has been associated with redwood dust. Some effects associated with wood dust are thought to be due to molds, bacteria, or pesticides present on the wood or to other materials used during certain woodworking activities (e.g. formaldehyde).		
Ingestion	Not normally a hazard due to physical form of product. The dust may be discomforting Accidental ingestion of the material may be damaging to the health of the individual.		
Skin Contact	Not normally a hazard due to physical form of product. The dust may be discomforting Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.		
Eye	Not normally a hazard due to physical form of product. The dust may be discomforting		
Chronic	used; effectiveness of control measures; protective equipt which would encompass all possible scenarios, it is anticit {Manufacturer] Substance accumulation, in the human body, may occur a There is some evidence that inhaling this product is more population. There is limited evidence that, skin contact with this produ general population. This material can be regarded as being able to cause can Chronic poisoning by natural pyrethrins may result in conv kidney damage, or death. Natural pyrethrins may cause h	mediate onset type in woodwork which causes a respiratory syndrome, and of the	
OneFortyOne LOSP Optimum	тохісіту	IRRITATION	
Treated Timber	Not Available	Not Available	
	ΤΟΧΙϹΙΤΥ	IRRITATION	
permethrin	TOXICITY dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup>	IRRITATION Skin (rabbit): 500 mg/24h - mild	
	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup>		
permethrin	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild	
	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b>	Skin (rabbit): 500 mg/24h - mild IRRITATION	
permethrin	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> TOXICITY         dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild IRRITATION Eye (non-irritating) *	
permethrin	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild IRRITATION Eye (non-irritating) *	
permethrin	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> TOXICITY         dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup>	Skin (rabbit): 500 mg/24h - mild         IRRITATION         Eye (non-irritating) *         Skin (non-irritating) *	
permethrin	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> TOXICITY         dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup> TOXICITY	Skin (rabbit): 500 mg/24h - mild       IRRITATION       Eye (non-irritating) *       Skin (non-irritating) *       IRRITATION	
permethrin	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: 550 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild       IRRITATION       Eye (non-irritating) *       Skin (non-irritating) *       IRRITATION	
permethrin propiconazole tebuconazole	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >0.8 mg/L4h <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild       IRRITATION       Eye (non-irritating) *       Skin (non-irritating) *       IRRITATION	
permethrin	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LD50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LD50: >0.8 mg/L4h <sup>[2]</sup> Oral (Mouse) LD50; 2000 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h - mild         IRRITATION         Eye (non-irritating) *         Skin (non-irritating) *         IRRITATION         IRRITATION         IRRITATION         IRRITATION         IRRITATION         IRRITATION         IRRITATION         IRRITATION	
permethrin propiconazole tebuconazole wood dust hardwood	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >0.8 mg/L4h <sup>[2]</sup> Oral (Mouse) LD50; 2000 mg/kg <sup>[2]</sup> <b>TOXICITY</b>	Skin (rabbit): 500 mg/24h - mild         IRRITATION         Eye (non-irritating) *         Skin (non-irritating) *         IRRITATION         IRRITATION         Non-irritating to eyes, skin. *         IRRITATION         IRRITATION         IRRITATION         IRRITATION         IRRITATION         IRRITATION	
permethrin propiconazole tebuconazole	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LD50: >0.8 mg/L4h <sup>[2]</sup> Oral (Mouse) LD50; 2000 mg/kg <sup>[2]</sup> TOXICITY         Not Available	Skin (rabbit): 500 mg/24h - mild         IRRITATION         Eye (non-irritating) *         Skin (non-irritating) *         IRRITATION         IRRITATION         Non-irritating to eyes, skin. *         IRRITATION         Non-irritating to eyes, skin. *         IRRITATION         Not Available	
permethrin propiconazole tebuconazole wood dust hardwood	dermal (rat) LD50: 1750 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 383 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >4000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Rat) LD50: 550 mg/kg <sup>[1]</sup> <b>TOXICITY</b> dermal (rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LD50: >5000 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: >0.8 mg/L4h <sup>[2]</sup> Oral (Mouse) LD50; 2000 mg/kg <sup>[2]</sup> <b>TOXICITY</b> Not Available <b>TOXICITY</b> Not Available	Skin (rabbit): 500 mg/24h - mild         IRRITATION         Eye (non-irritating) *         Skin (non-irritating) *         IRRITATION         Non-irritating to eyes, skin. *         IRRITATION         Non-irritating to eyes, skin. *         IRRITATION         IRRITATION         IRRITATION         IRRITATION         IRRITATION         Not Available         IRRITATION         Not Available         IRRITATION         Not Available	

PERMETHRIN
Oral (rat) LD50: 430-4000 mg/kg \* Oral (mouse) LD50: 540-2960 mg/kg \* cis/trans ratio: 40:60 cis/trans ratio: 20:80 ADI: 0.05 mg/kg for nominal cis-trans 40:60 and 25:75 isomers only
The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
The substance is classified by IARC as Group 3:
NOT classifiable as to its carcinogenicity to humans.

	Evidence of carcinogenicity may be inadequate or limited in animal testing.
PROPICONAZOLE	No sensitisation in guinea pigs * ADI 0.04 mg/kg b.w. * Toxicity Class WHO III NOEL for dogs 50 ppm (1.9 mg/kg b.w. daily) *
TEBUCONAZOLE	(aerosol) NOEL (2 y)* for rats, 300 mg/kg diet for dogs, 100 mg/kg " for mice, 20 mg/kg " ADI 0.03 mg/kg b.w. * Toxicity Class WHO III; EPA III *
WOOD DUST HARDWOOD	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. WARNING: Inhalation of wood dust by workers in the furniture and cabinet making industry has been related to nasal cancer [1.L.O. Encyclopedia] Use good occupational work practices to limit all exposures.
WOOD DUST SOFTWOOD	Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Allergic potential of the allergen and period of exposure often determine the severity of symptoms. Some people may be genetically more prone than others, and exposure to other irritants may aggravate symptoms. Allergy causing activity is due to interactions with proteins. Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure. WARNING: Inhalation of wood dust by workers in the furniture and cabinet making industry has been related to nasal cancer [ I.L.O. Encyclopedia] Use control measures to limit all exposures.
PERMETHRIN & PROPICONAZOLE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.
PERMETHRIN & PROPICONAZOLE & TEBUCONAZOLE	[* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council]
WOOD DUST HARDWOOD & WOOD DUST SOFTWOOD	<ul> <li>No significant acute toxicological data identified in literature search.</li> <li>For word dusts:</li> <li>Wood dusts may cause respiratory symptoms including sensitisation and minished respiratory function and may also be carcinogenic.</li> <li>OSHA has diemined hat he health evidence for the toxicity of word dust cance to a lis widely recognized ability to cause immune-system-mediated allergic sensitization. Evidence in the record demosstrates the sensitonsness of this effect.</li> <li>Wood dust is defined as any wood particles arising from the processing or handling of woods. Hard woods dust is the distinction between nard woods and soft woods in purely totanical. Many so-called 'softwoods' are actually hard (i.e., Douglas fir as a softwood is harder than the ard/wood bard is diveds in guine yot botanical. Many so-called 'softwoods' are actually hard (i.e., Douglas fir as a softwood is harder than the ard/wood bard is diveds in guine yot dust softwoods is purely totanical. Many so-called 'softwoods' are actually hard (i.e., Douglas fir as a softwood is harder than the ard/wood bard, and woods and soft woods is purely totanical. Many so-called 'softwoods' are actually hard (i.e., Douglas fir as a softwood is harder than the ard/wood bard, many dustes words, what any called softwood bard, what hard that the ard/wood bard, what woods such as oak, birch, redwood, pine, tesk, aider, and hemicok, produce pulmonary diffects that are less well described than the astime sepsones to besettem red ocalur.</li> <li>OSHA is establishing a PEL of Simgin 3as an 8-hour TWA and 10 mg/m3 as a 15-minute STEL for hard and soft wood dust, with the exception of yournorary dystruction (including changes in peak flow, interference with muccollary clearne, respiratory symptoms, and chronic effect) hat is associated with exposure to wood dust and various forms of cancer has been explored in many studies and in mary countrise. In 1987, HAC to actine cancerogenicity or wood dust.</li> <li>Ore fingere</li></ul>

Skin Irritation/Corrosion

Serious Eye Damage/Irritation

×

X

# OneFortyOne LOSP Optimum Treated Timber

DEN-exposed animals but did affect the respiratory tra	act of all exposed animals.	
	act of all exposed animals.	
The symptoms of sensitization are redness, scaling, a chronic dermatitis. The parts of the body most often a generally appears after a few days or weeks of contact. The chemicals associated with allergic reactions are to to these reactions are those involved in secondary were cereal flours are used in the wood industry to improve sensitising substances. Cereal alpha-amylase inhibito baker's asthma. IgE proteins belong to the cereal alph Exposure to microorganisms that grow on wood can a wood are the main biohazards found in wood process organic dust toxic syndrome (ODTS), bronchitts, asthm predominantly associated with EAA and ODTS are dr. A large number of studies have demonstrated that cocincreases in respiratory symptoms at exposure levels and prolonged colds. In addition, chronic wood dust e in some workers, also causes changes in the nasal m wood-dust-exposed workers, although other studies he In that study, exposure to concentrations of 2 mg/m3. Mucosal and non-allergic respiratory effects have also obstruction; coughing, wheezing, and sneezing; sinus concentrations below 4 mg/m3. Workers (carpenters, hard woods showed radiologic evidence of pulmonary leading these authors to conclude that exposure to wrespiratory survey in pulp and paper mill workers show had a slight but statistically significant ad higher in only for soft wood (i.e., pine) dusts. Yet another study A study of Italian woodworkers showed that the numb significantly higher than in a control group of non-expet Exposure to work dust can cause chronic obstructive also causes chronic obstructive impairment in lung fur Medium density fibre boards (MDF) is widely used in the constituents of MDF particle boards are pulverised so hazards in the working environment. MDF produces v formaldehyde to the lower ainways of the lungs. Wood symptoms of dryness of the throat, rhinitis and eye irri Groups of male guinea pigs were injected intratrachear bagase fibers, or 20 mg of jute fiber. Lung examinati injected with mango or jute, while those treated with	ffected are the hands, forearms, eyelid t. generally found in the inner parts of a tr ood processing (e.g., carpenters, joiner e the quality of the glues necessary to p rs have been previously described as ia-amylase inhibitor family have been i ilso cause potential health effects. End ing workplaces. Exposure to these biol ma, extrinsic allergic alveolitis (EAA), a y spored species such as Aspergillus a cupational exposure to wood dust caus as low as 2 mg/m3. These symptoms xposure causes mucociliary stasis (i.e. ucosa. Several studies have demonstr ave not confirmed these findings. One of WRC dust caused significant decrea produced eye irritation. been demonstrated. These changes i tits; and prolonged colds. These sympt sammill workers, woodworkers) expose abnormalities. In all of these workers, ood dust in the furniture industry for 10 wed that workers exposed to wood dus monary function values compared with been responsible for these adverse eff ryears/m3), as compared with lower (0 cidence of decreased pulmonary functi found no correlation between years of er of wood-dust-exposed workers who obsed workers. This confirmed was cont lung disease. Exposure to saw fumes nction. the joinery and furniture industry as we ftwood and urea-formaldehyde resin, b ery fine dust during processing and the dust and formaldehyde together have station as well as occupational skin dis- gical examination showed lung change in septal connective tissue component enchymal tissue occurred. The study c olden hamsters to beech wood dust by htrol), and the fourth group was given r cell papillomas of the trachea, as did th ther than the respiratory organs were ex- solvek for 40 weeks. All DEN-exposed h, half of all DEN-exposed hamsters de lexposed animals also had papillomas sions, one of which was an unclassifiat	<ul> <li>Is, face, neck, and genitals. This form of dermatitis</li> <li>tree, e.g., the heartwood, and the workers most prones, and finishers).</li> <li>produce veneer panels and are a potential source of important occupational allergens responsible for dentified in the sera of several wood workers.</li> <li>lotoxins from bacteria and allergenic fungi growing on hazards can cause adverse health effects such as ind mucous membrane irritation. The fungi and Penicillium.</li> <li>ses both statistically significant and non-significant range from irritation to bleeding, wheezing, sinusitis, the absence of effective clearance) in the nose and, atted decreased pulmonary function among study relates exposure level to ventilatory function.</li> <li>uses in forced vital capacity and forced expiratory</li> <li>include nasal dryness, irritation, bleeding, and toms have been observed even at wood dust ed from 3 to 24 years to the dust of several different mucociliary movement was markedly depressed, years or more can impair mucociliary clearance. A t at a mean total dust concentrations was on. However, dose-response effects were observed exposure to pine wood dust and pulmonary function. had developed anosmia (loss of smell) was firmed in other workers exposed to hardwood dusts. containing terpenes, which is a constituent of wood, at an is a building and housing construction. The major ports of the lungs had occurred in the guinea pigs de II pulmonary fibrosis.</li> <li>espirable dust concentrations of 1143 mg/m3 for 30 s, described as moderate to severe, in all exposed is an dagregation of lymphocytes; however, no oncluded that exposure to fir bark dust may cause</li> <li>rinhalation, with or without concurrent administration no exposure at all (negative control). Four hamsters intere animals in the positive control groups.</li> <li>ed to fresh beech wood dust at a mean total dust hamsters had nasal lesions ranging from</li> </ul>
generally appears after a few days or weeks of contact The chemicals associated with allergic reactions are go to these reactions are those involved in secondary we Cereal flours are used in the wood industry to improve	al wood dust exposure is inconclusive, exposed workers. A significant excess is ical studies of U.S. workers do report i rent among carpenters. ure to wood dust and the development timber in both industrial and domestic : d in water. Exposure to CCA is conside e cancer. It is recommended practice t sure fixation and surface drying of the e a variety of adverse health effects, inc cer. The toxicity data in animals are lim dies in humans. There are a large num e in humans. Dermatitis caused by exp ction), or both of these together. As ma mune system, as is also the case with ure of such reactions has been demons lied of the allergic reactions to wood du species are allergic to it. Ind itching, which may progress to vesi ffected are the hands, forearms, eyelid at. generally found in the inner parts of a tr iod processing (e.g., carpenters, joiner e the quality of the glues necessary to j	although several epidemiological studies have of malignant tumours of the bronchus and lung in in lung cancer rate. ncreases in the incidence of Hodgkin's disease of cancers other than nasal, Hodgkin's disease, or situations. CCA is a water-borne preservative and ered a potential health risk mainly because some hat freshly treated timber is stored at the treatment CCA. Timber for domestic or playground use should cluding dermatitis, allergic respiratory effects, ited, particularly with regard to exposure to wood ber of case reports, epidemiological studies, and oosure to wood dusts is common, and can be caused iny as 300 species of trees have been implicated in allergic dermatitis. Asthma is the most common strated by the presence of IgE antibodies and ust is Western red cedar (WRC) asthma; it is icular dermatitis and, after repeated exposures, to is, face, neck, and genitals. This form of dermatitis ree, e.g., the heartwood, and the workers most prone s, and finishers). produce veneer panels and are a potential source of

Reproductivity

STOT - Single Exposure

×

×

Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: X – Data either not available or does not fill the criteria for classification v – Data available to make classification	

**SECTION 12 Ecological information** 

Toxicity

OneFortyOne LOSP Optimum Treated Timber	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr) Species		Value		Source
	NOEC(ECx)	96h	Crustacea	0.0000	)25mg/l	4
permethrin	LC50	96h	Fish	0.0000	082-0.000818mg/l	4
	EC50	96h	Algae or other aquatic plants 0.068mg/l		ng/l	4
	EC50	48h	Crustacea	0.0006	63-0.00249mg/l	4
	Endpoint	Test Duration (hr)	Species	V	alue	Source
propiconazole	NOEC(ECx)	48h	Fish	0	.0001mg/l	4
	EC50	72h	Algae or other aquatic p	Algae or other aquatic plants 0.000		4
	LC50	96h	Fish	5	.3mg/l	Not Availabl
	EC50	96h	Algae or other aquatic p	Algae or other aquatic plants 1.29mg		4
	EC50	48h	Crustacea	Crustacea 3.354-4.90		4
	Endpoint	Test Duration (hr)	Species		Value	Source
	LC50	96h	Fish		6.4mg/l	Not Available
tebuconazole	EC50	72h	Algae or other aquation	Algae or other aquatic plants 2.09-3.01mg		4
	EC50	48h	Crustacea	Crustacea 2.1-3.94mg/l		4
	NOEC(ECx)	672h	Crustacea	Crustacea 0.000987m		4
	EC50	96h	Algae or other aquation	Algae or other aquatic plants 1.45mg/L		4
	Endpoint	Test Duration (hr)	Species	Species Value		Source
wood dust hardwood	Not Available	Not Available	Not Available	Not Available Not Available		Not Availabl
	Endpoint	Test Duration (hr)	Species		Value	Source
wood dust softwood	Not Available	Not Available	Not Available		Not Available	Not Available

Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
permethrin	HIGH	HIGH
tebuconazole	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
permethrin	LOW (LogKOW = 7.4267)	
tebuconazole	HIGH (LogKOW = 5.4673)	

### Mobility in soil

Ingredient	Mobility
permethrin	LOW (KOC = 178400)
tebuconazole	LOW (KOC = 20660)

### **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>For wood wastes including wood dusts:</li> <li>Various public policies encourage the utilisation of waste wood for heat and energy production. Generation of heat using combustion technologies such as grate-fired boilers, fluidised bed combustion and cement kilns. Energy production technologies have been developed which are able to utilise mixed biomass to create energy. Common technologies include steam turbines, gasification and pyrolysis.</li> <li>The main issue preventing the utilisation of wood wastes is overcoming contamination, especially contamination by chemicals such as wood preservatives. However, technologies are being developed to overcome such issues, which may be viable for some of the larger industries wishing to use waste wood for manufacturing or energy production.</li> <li>When considering options for minimising waste, the waste hierarchy of "reduce, reuse, recycle" is a common feature across jurisdictions. The hierarchy expresses a preference to achieve sustainable outcomes by reducing the amount of waste that is generated, reusing what cannot be reduced and recycling what cannot be reused, with disposal as the last option.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

#### **SECTION 14 Transport information**

# Labels Required Marine Pollutant 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

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
permethrin	Not Available
propiconazole	Not Available
tebuconazole	Not Available
wood dust hardwood	Not Available
wood dust softwood	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
permethrin	Not Available
propiconazole	Not Available
tebuconazole	Not Available
wood dust hardwood	Not Available
wood dust softwood	Not Available

#### **SECTION 15 Regulatory information**

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

#### permethrin is found on the following regulatory lists Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2 Schedule 6 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Australian Inventory of Industrial Chemicals (AIIC) Schedule 4 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Monographs - Not Classified as Carcinogenic Schedule 5

#### propiconazole is found on the following regulatory lists

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

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

Australian Inventory of Industrial Chemicals (AIIC)

tebuconazole is found on the following regulatory lists

### Issue Date: 10/12/2021 Print Date: 20/04/2023

### **OneFortyOne LOSP Optimum Treated Timber**

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

wood dust hardwood is found on the following regulatory lists

Not Applicable

wood dust softwood is found on the following regulatory lists Not Applicable

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (tebuconazole)	
Canada - DSL	No (permethrin; propiconazole; tebuconazole)	
Canada - NDSL	No (permethrin; propiconazole; tebuconazole)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	No (permethrin; propiconazole; tebuconazole)	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	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. These ingredients may be exempt or will require registration.	

#### **SECTION 16 Other information**

Revision Date 1	10/12/2021
Initial Date 2	20/03/2018

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
5.1	10/12/2021	Classification change due to full database hazard calculation/update.

#### 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 Cance 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 ES: Exposure Standard 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 AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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