

# **Carter Holt Harvey Plywood Ltd**

Chemwatch: **5304-13**Version No: **3.1.1.1** 

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code:

Issue Date: **19/06/2018**Print Date: **10/09/2018**S.GHS.NZL.EN.RISK

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

### **Product Identifier**

Product name	CHH H2 S (Termite) Treated Plywood	
Synonyms	Not Available	
Other means of identification	Not Available	

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

Relevant identified uses	Used in residential, commercial, and industrial construction, and/or general purpose building material.
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## Details of the supplier of the safety data sheet

Registered company name	Carter Holt Harvey Plywood Ltd
Address	173 Captain Springs Road Onehunga Auckland 1061 New Zealand
Telephone	+64 800 326 759
Fax	Not Available
Website	Not Available
Email	Not Available

# Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

## **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

Not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	0		linimum
Body Contact	1	1 = Lo	
Reactivity	0	2 = N 3 = F	loderate
Chronic	0		xtreme

### CANADIAN WHMIS SYMBOLS

Classification	Not Applicable

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Determined by Chemwatch using GHS/HSNO criteria

Not Available

\*LIMITED EVIDENCE

## Label elements

Hazard pictogram(s)

Not Applicable

SIGNAL WORD

**NOT APPLICABLE** 

### Hazard statement(s)

Not Applicable

\*LIMITED EVIDENCE

### Supplementary statement(s)

Not Applicable

## Precautionary statement(s) Prevention

Not Applicable

## Precautionary statement(s) Response

Not Applicable

## Precautionary statement(s) Storage

Not Applicable

## Precautionary statement(s) Disposal

Not Applicable

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## **Substances**

See section below for composition of Mixtures

### **Mixtures**

CAS No	%[weight]	Name
		wood veneer
40798-65-0	<10	phenol/ formaldehyde polymer sodium salt
		insecticide, as
82657-04-3	<0.015	bifenthrin
		In use, may generate wood dust softwood
		THIS REPORT IS FOR TREATED PRODUCT ONLY

### **SECTION 4 FIRST AID MEASURES**

## **Description of first aid measures**

Eye Contact	<ul> <li>Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations.</li> <li>If this product comes in contact with eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	Brush off dust. In the event of abrasion or irritation of the skin seek medical attention.
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>Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations.</li> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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### **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.  Wear breathing apparatus plus protective gloves. Equipment should be thoroughly decontaminated after use.	
Fire/Explosion Hazard	Combustible. Will burn if ignited.   - 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.	

### **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, including any incompatibilities

Conditions for safe storage, including any incompatibilities	
Suitable container	► Generally not applicable.
Storage incompatibility	► Keep dry



- **X** Must not be stored together
- May be stored together with specific preventions
- + May be stored together

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

OCCUPATIONAL EXPOSURE LIMITS (OEL)

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### INGREDIENT DATA

Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
CHH H2 S (Termite) Treated Plywood	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
phenol/ formaldehyde polymer sodium salt	Not Available		Not Available	
bifenthrin	Not Available		Not Available	

### **Exposure 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 can 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.

# Appropriate engineering controls

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

### Personal protection









Eye and face protection

When sawing, machining or sanding use|- Safety glasses with side shields.

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Skin protection	See Hand protection below
Hands/feet protection	<ul><li>▶ Protective gloves eg. Leather gloves or gloves with Leather facing</li><li>▶ Safety footwear</li></ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.  OTHERWISE:  Overalls.  Barrier cream.  Eyewash unit.

### Respiratory protection

- 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.

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

# Information on basic physical and chemical properties

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Pressed boards ranging in thickness from 30mm to 90mm. These boards are ripped into strips between 35 and 600mm wide to form lineal wood components. Bifenthrin treatment is applied during manufacture and the product is coated yellow for easy identification.|THIS CHEMWATCH REPORT IS FOR TREATED PRODUCT ONLY.

Physical state	Manufactured	Relative density (Water = 1)	0.5-1.0
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	>200
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 Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water (g/L)	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**

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Information on toxicological effects

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Inhaled	Not normally a hazard due to physical form of product. Generated dust may be discomforting	
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industria	al environments  Ingestion of sawdust may cause nausea,
Skin Contact	The dust is discomforting and mildly abrasive to the skin and dermatitis.	d may cause drying of the skin, which may lead to contact
Eye	The dust may produce eye discomfort causing smarting, pair	n and redness.
Chronic	<ul> <li>Hazard relates to dust released by sawing, cutting, sanding Various woods are able to induce allergies, both of the immediate syndrome, and of the delayed type which results in eczema common.</li> <li>[Wood dust may cause skin and respiratory sensitisation.</li> </ul>	diate onset type in woodwork which causes a respiratory
CHH H2 S (Termite)	тохісіту	IRRITATION
Treated Plywood	Not Available	Not Available
phenol/ formaldehyde	TOXICITY	IRRITATION
polymer sodium salt	Not Available	Not Available
	TOXICITY	IRRITATION

polymer sodium salt	Not Available	Not Available
	TOXICITY	IRRITATION
bifenthrin	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Oral (rat) LD50: 54.5 mg/kg <sup>[2]</sup>	Eye (rabbit): non-irritant *  Skin (rabbit): non-irritant *
Legend:	Value obtained from Europe ECHA Registered Substances     Unless otherwise specified data extracted from RTECS - Reg	

PHENOL/ FORMALDEHYDE POLYMER SODIUM SALT	No significant acute toxicological data identified in literature search.
BIFENTHRIN	For bifenthrin: Bifenthrin is moderately toxic if swallowed. Large doses may cause inco-ordination, tremor, excessive saliva production, vomiting, diarrhoea, and irritability to sound and touch. It is much less toxic by skin contact, and it does not inflame or irritate human skin, although it can cause a temporary tingling sensation. Animal testing shows that it has very little irritating effect on the eyes. Long-term effects are unknown. It does not seem to cause reproductive or developmental toxicity except at levels harmful to the mother. It is uncertain whether bifenthrin causes mutations; it is possible that it causes cancer in humans. Pyrethroids affect the nerves, over-stimulating nerve cells, causing tremors and then paralysis. Bifenthrin is mostly excreted in the urine and faeces but a small portion does accumulate in body fat. NOEL (dogs) 1.5 mg/day/1y * ADI 0.02 mg/kg * Non-teratogenic in rats (< 2 mg/kg/day) and rabbits (8 mg/kg/day)* No skin sensitisation (guinea pigs) *

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

**Legend: X** − Data available but does not fill the criteria for classification

✓ – Data available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# **Toxicity**

01111 110 0 (Tarresita)	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
CHH H2 S (Termite) Treated Plywood	Not Available	Not Available	Not Available	Not Available	Not Available

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phenol/ formaldehyde polymer sodium salt	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
bifenthrin	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.00015mg/L	4
	EC50	48	Crustacea	0.0016mg/L	4
	NOEC	504	Crustacea	0.000004mg/L	4
Legend:	Toxicity 3. EP Data 5. ECET	PIWIN Suite V3.12 (QSAR) - Aqu	ope ECHA Registered Substances - E atic Toxicity Data (Estimated) 4. US E Data 6. NITE (Japan) - Bioconcentra	PA, Ecotox database - Aqua	

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

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
bifenthrin	HIGH	HIGH

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
bifenthrin	LOW (LogKOW = 8.1524)

## Mobility in soil

Ingredient	Mobility
bifenthrin	LOW (KOC = 3228000)

## **SECTION 13 DISPOSAL CONSIDERATIONS**

## Waste treatment methods

Product / Packaging disposal

- ${\color{red} \bullet} \ \ {\sf Recycle} \ \ {\sf wherever} \ \ {\sf possible} \ \ {\sf or} \ \ {\sf consult} \ \ {\sf manufacturer} \ \ {\sf for} \ \ {\sf recycling} \ \ {\sf options}.$
- ► Consult State Land Waste Management Authority for disposal.
- ▶ Bury residue in an authorised landfill.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

### **Disposal Requirements**

Not applicable as substance/ material is non hazardous.

## **SECTION 14 TRANSPORT INFORMATION**

## **Labels Required**

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

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

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

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### 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
Not Applicable	Not Applicable

### PHENOL/ FORMALDEHYDE POLYMER SODIUM SALT(40798-65-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Inventory of Chemicals (NZIoC)

### BIFENTHRIN(82657-04-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Inventory of Chemicals (NZIoC)

# **Hazardous Substance Location**

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
Not Applicable	Not Applicable	Not Applicable

### **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

### **Tracking Requirements**

Not Applicable

## **National Inventory Status**

National Inventory	Status
Australia - AICS	N (bifenthrin)
Canada - DSL	N (bifenthrin)
Canada - NDSL	N (bifenthrin; phenol/ formaldehyde polymer sodium salt)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	N (bifenthrin; phenol/ formaldehyde polymer sodium salt)
Japan - ENCS	N (bifenthrin; phenol/ formaldehyde polymer sodium salt)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	N (bifenthrin; phenol/ formaldehyde polymer sodium salt)
USA - TSCA	N (bifenthrin)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

Revision Date	19/06/2018
Initial Date	23/04/2018

## Other information

## Ingredients with multiple cas numbers

•	
Name	CAS No
bifenthrin	82657-04-3, 92880-79-0

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.

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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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