

HOLDFAST® METALEX WOOD PROTECTOR MATERIAL SAFETY DATA SHEET

1. Identification of the Substance/Preparation

1.1 Identification of the substance or preparation:

Product Name: Metalex Wood Protector
Other Names: -
Proper shipping name:-
Recommended Use: *Timber Preservative*



1.2 Product Code:
 43996 (1Lt), 43999 (4Lt), 43998 (20Lt)

1.3 Contact Details:

Holdfast NZ LTD
 14 Avalon Drive
 Newton
 Hamilton 3200
 New Zealand

Freephone: 0800 70 10 80
 Phone: (07) 847 5540
 Fax: (07) 847 0324
 Email: sales@holdfast.co.nz
 Website: www.holdfast.co.nz

2. Hazards Identification

- 6.1C (oral) Acutely toxic
- 6.3B Mildly irritating to the skin
- 6.4A Irritating to the eye
- 6.5A (respiratory) Respiratory sensitisers
- 6.5B (contact) Contact sensitisers
- 6.9B (oral) Harmful to human target organs or systems
- 6.9B (inhalation) Harmful to human target organs or systems
- 9.1A (fish) Very ecotoxic in the aquatic environment
- 9.1A (crustacean) Very ecotoxic in the aquatic environment
- 9.3B Ecotoxic to terrestrial vertebrates
- 9.4A Very ecotoxic to terrestrial invertebrates

3. Composition/Information on Ingredients

Ingredients	CAS No. EINECS No.	Concentration of ingredients % state <i>whether by weight or volume</i>	Hazard Symbol	Risks (R-phrases)
<i>permethrin</i>	52645-53-1	0.2%	-	-
<i>solvent naphtha (petroleum), heavy aromatic</i>	64742-94-5	76%	-	-

<i>additives</i>	<i>N/A</i>	<i><10%</i>	<i>-</i>	<i>-</i>
<i>naphthenic acid, zinc salt</i>	<i>12001-85-3</i>	<i>1.7%</i>	<i>-</i>	<i>-</i>

4. First Aid Measures

4.1 Swallowed:

For advice, contact a Poisons Information Centre on +643 479 7248 (New Zealand) or a doctor. If swallowed, do not induce vomiting.

4.2 Eye contact:

Hold eyelids apart and flush continuously with water or sterile saline solution. Continue until advised to stop by the Poisons Information Centre or for at least 15 minutes.

4.3 Skin Absorption:

Gently flush affected areas with water. Seek medical attention if irritation develops.

4.4 Inhalation:

If exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

5. Fire-Fighting Measures

5.1 Fire extinguishing media:

Use waterfog to cool intact containers and nearby storage areas. Dry agent, carbon dioxide or foam.

5.2 Special exposure hazards:

Combustible. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

5.3 Special protective equipment for fire-fighters:

Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.

6. Accidental Release Measures

6.1 Environmental precautions:

If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, neoprene/nitrile gloves, a Type A (Organic vapour) respirator (where an inhalation risk exists), coveralls and boots.

6.2 Methods for cleaning up:

Eliminate ignition sources. Ventilate and clear area of all unprotected personnel. Absorb with sand or similar and place in clean containers for disposal.

7. Handling and Storage

7.1 Handling:

Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands before eating. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Storage:

Store in cool, dry, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids (sulfuric acid), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

7.3 Specific Uses:

- See information supplied by the manufacturer

8. Exposure Controls/Personal Protection

8.1 Exposure limit values:

TLV-TWA	: not listed
TLV-STEL	: not listed
TLV-Ceiling	: not listed
OES-LTEL	: not listed
OES-STEL	: not listed
MAK	: not listed
TRK	: not listed
MAC-TGG 8 h	: not listed
MAC-TGG 15 min.	: not listed
MAC-Ceiling	: not listed
VME-8 h	: not listed
VLE-15 min.	: not listed
GWBB-8 h	: not listed
GWK-15 min.	: not listed
Momentary value	: not listed
EC	: not listed
EC-STEL	: not listed

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Use only in well ventilated area

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 Respiratory protection:

- Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator.

8.3.2 Hand protection:

- Wear neoprene or nitrile gloves

8.3.3 Eye protection:

- Splash-proof goggles

8.3.4 Skin protection:

- When using large quantities or where heavy contamination is likely, wear coveralls

9. Physical and Chemical Properties

9.1 General information:

Appearance (at 20°C)	: Viscous liquid
Odour	: Solvent odour
Colour	: Clear

9.2 Important health, safety and environmental information:

pH value	: N.D	
Boiling point/boiling range	: >200	°C
Flashpoint	: >61	°C
Explosion limits	: N.D	Vol%
Vapour pressure (at 20°C)	: N.D	hPa

Vapour pressure (at 50°C)	: N.D	hPa
Relative density (at 20°C)	: 1.6	
Water solubility	: Insoluble	
Soluble in	: Organic solvents	
Relative vapour density	: N.D	
Viscosity	: N.D	Pa.s
Partition coefficient n-octanol/water	: N.D	
Evaporation rate		
Ratio to butyl acetate	: N.D	
Ratio to ether	: N.D	

9.3 Other information:

Melting point/melting range	: N.D	°C
Auto-ignition point	: 250	°C
Saturation concentration	: N.D	g/m³

10. Stability and Reactivity

10.1 Conditions to avoid/reactivity

- Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulfuric acid), heat and ignition sources.

10.2 Materials to avoid:

- None

10.3 Hazardous decomposition products:

- May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. Toxicological Information

11.1 Acute toxicity:

PERMETHRIN (52645-53-1)

LC50 (Inhalation) : 485 mg/m³ (rat)

LD50 (Skin) : 1750 mg/kg (rat)

LD50 (Ingestion) : 383 mg/kg (rat)

NAPHTHENIC ACID, ZINC SALT (12001-85-3)

LD50 (Ingestion) : 4920 mg/kg (ori-rat)

11.2 Chronic toxicity:

EC carc. cat. : not listed

EC muta. cat. : not listed

EC repr. cat. : not listed

Carcinogenicity (TLV) : not listed

Carcinogenicity (MAC) : not listed

Carcinogenicity (VME) : not listed

Carcinogenicity (GWBB) : not listed

Carcinogenicity (MAK) : not listed

Mutagenicity (MAK) : not listed

Teratogenicity (MAK) : not listed

IARC classification : not listed

11.3 Routes of exposure:

Ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:

- Low to moderate toxicity - irritant. Use safe work practices to avoid eye or skin contact and vapour generation or inhalation. Over exposure may result in adverse effects to the central nervous system.

11.5 Chronic effects:

- None known

12. Ecological Information**12.1 Ecotoxicity:**

Aliphatic hydrocarbons behave differently in the environment depending on their size. WATER: Light aliphatics volatilise rapidly from water (half life - few hours). Bioconcentration should not be significant. SOIL: Light aliphatics biodegrade quickly in soil and water, heavy aliphatics biodegrade very slowly. ATMOSPHERE: Vapour-phase aliphatics will degrade by reaction with hydroxyl radicals.

12.2 Mobility:

Volatile organic compounds (VOC): < 2 %

- Insoluble in water
- Substance sinks in water

For other physicochemical properties see section 9

12.3 Persistence and degradability:

- biodegradation BOD ₅	: N.D	% ThOD
- water	: No data available	
- soil	: T ½: N.D	days

12.4 Bioaccumulative potential:

- log P _{ow}	: N.D
- BCF	: N.D

12.5 Other adverse effects:

- WGK	: 1	(Classification based on the components as per Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- Effect on the ozone layer	: Not dangerous for the ozone layer (1999/45/EC)	
- Greenhouse effect	: no data available	
- Effect on waster water purification	: no data available	

13. Disposal Considerations**13.1 Provisions relating to waste:**

- Waste material code(75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09)

13.2 Disposal methods:

- Remove to an authorized incinerator equipped with an afterburner and flue gas scrubber

13.3 Packaging:

- Waste material code packaging (75/442/EEC, Council Decision 2001/118/EC, O.J L47 of 16/2/2001): 15 01 02 (plastic packaging)

14. Transport Information

14.1	Classification of the substance in compliance with UN Recommendations:	
	UN-number	: -
	DG CLASS	: NOT SUBJECT
	SUBSIDIARY RISKS	:
	PACKING	:
	PROPER SHIPPING NAME	:
	HAZCHEM CODE	:
14.2	ADR (transport by road)	
	CLASS	: NOT SUBJECT
	PACKING	:
	DANGER LABEL TANKS	:
	DANGER LABEL PACKAGES	:
14.3	RID (transport by rail)	
	CLASS	: NOT SUBJECT
	PACKING	:
	DANGER LABEL TANKS	:
	DANGER LABEL PACKAGES	:
14.4	ADNR (transport by inland waterways)	
	CLASS	: NOT SUBJECT
	PACKING	:
	DANGER LABEL TANKS	:
	DANGER LABEL PACKAGES	:
14.5	IMDG (maritime transport)	
	CLASS	: NOT SUBJECT
	SUB RISKS	:
	PACKING	:
	MFAG	:
	EMS	:
	MARINE POLLUTANT	:
14.6	ICAO (air transport)	
	CLASS	: NOT SUBJECT
	PACKING	:
	PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
	PACKING INSTRUCTIONS CARGO AIRCRAFT	:
14.7	Special precautions in connection with transport	: Not restricted for any mode of International transport

15. Regulatory Information

Labelling in accordance with directives 67/548/EEC and 1999/45/EC

HSNO Number: *HSR 000 1234*

State if an Approved Handlers certificate is required.

Any Exposure Limits set by ERMA and/or Department of Labour

Other specific regulatory controls such as Health & Safety requirements.

16. Other Information

Last updated 2 April 2013, Created **30-08-2006**

Give a short reason for each change that is made to the SDS

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Exposure limits:

TLV : Threshold Limit Value – ACGIH US 2000
OES : Occupational Exposure Standards – United Kingdom 1999
MEL : Maximum Exposure Limits – United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen – Germany 2001
TRK : Technische Richtkonzentrationen – Germany 2001
MAC : Maximale aanvaarde concentratie – the Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition – France 1999
VLE : Valeurs limites d'Exposition à court terme – France 1999
GWBB : Grenswaarde beroepsmatige blootstelling – Belgium 1998
GWK : Grenswaarde kortstondige blootstelling – Belgium 1998
EC : Indicative occupational exposure limit values – directive 2000/39/EC

I : Inhalable fraction = T : Total dust = E : Einatembare Aerosolanteil
R : Respirable fraction = A: Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a:	aerosol		r:	rook/Rauch	(fume)
d:	damp	(vapour)	st:	Stof/Staub	(dust)
du:	dust		ve:	vezel	(fibre)
fa:	Faser	(fibre)	va:	vapour	
fi:	fibre		om:	oil mist	
fu:	fume		on:	Olienevel/Ölnebel	(oil mist)
p:	poussière	(dust)	part:	particles	

Chronic toxicity:

K : List of the carcinogenic substances and processes – the Netherlands 2002

Health and Safety Recommendation

– Apply the usual industrial hygiene

Last Updated: 25 March 2013