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Safety Data Sheet (SDS) for:  
**HOLDFAST® Metalex Concentrated Timber Preservative Clear**

**1. Identification of the Substance or Mixture and Supplier**

- 1.1 Product name:**  
HOLDFAST® Metalex Concentrated Timber Preservative Clear
- 1.2 Product code:**  
44001 (500 ml), 44005 (1 L), 44006 (4 L), 44010 (20 L)
- 1.3 Recommended use:**  
Paint-on wood preservative
- 1.4 HSNO group standard:**  
HSR002662
- 1.5 UN number, shipping name and packaging group:**  
1993, flammable liquids, N.O.S., III
- 1.6 Supplier contact details:**

Holdfast NZ Ltd	Freephone: 0800 70 10 80
14 Avalon Drive	Phone: (07) 847 5540
Nawton	Fax: (07) 847 0324
Hamilton 3200	Email: sales@holdfast.co.nz
New Zealand	Website: www.holdfast.co.nz

**POISON CENTRE NUMBER: 0800 764 766 (24 hours)**

**2. Hazards Identification**

**2.1 Hazardous Substances and New Organisms (HSNO) classification:**

Classification	Hazard statement
3.1C	Flammable liquid – medium hazard
6.3B	Substances that are mildly irritating to the skin
6.4A	Substances that are irritating to the eye
6.9B	Substances that are harmful to human target organs or systems
9.1B	Substances that are ecotoxic in the aquatic environment
9.3C	Substances that are harmful to terrestrial vertebrates

**2.2 Symbols:**

**DANGER**



**2.3 Precautionary Statements:**

- Keep out of reach of children.
- Read label before use.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Keep container tightly closed.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.

### 3. Composition/Information on Ingredients

#### 3.1 Information on the ingredients used in the substance:

Ingredient	CAS No.	Individual HSNO classification	Concentration (%)
Zinc naphthenate	12001-85-3	Based on copper naphthenate: 6.1D, 6.3B, 6.4A, 6.9B (oral), 9.1A (fish, algal), 9.1B (crustacean), 9.2C, 9.3C. NOTE: copper residues are more ecotoxic than zinc residues (classed as 9.1A, 9.2C, 9.3C).	≤35
Mineral turpentine	8052-41-3	3.1C, 6.1E (oral), 6.4A	30-65

### 4. First Aid Measures

#### 4.1 Skin contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention.

#### 4.2 Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### 4.3 Inhalation:

No data.

#### 4.4 Ingestion:

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

#### 4.5 Advice for physicians:

Treat symptomatically.

### 5. Fire-Fighting Measures

#### 5.1 Extinguishing media:

In case of fire – use dry agent or foam.

#### 5.2 Special hazards due to combustion:

Flammable liquid and vapour. This product should be stored and used in a well ventilated area away from naked flames, heat, sparks and other sources of ignition. Electrically link and ground metal containers for transfer of the product to prevent accumulation of static electricity. Keep the container tightly closed.

#### 5.3 Advice for fire-fighters:

Fire fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Cool storage drums with water spray. Evacuate area downwind of fire.

#### 5.4 Hazchem code:

No data.

### 6. Accidental Release Measures

#### 6.1 Personal precautions:

Wear protective equipment to prevent contact through skin, eyes and lungs. Increase ventilation around accident and avoid working in direct line of vapour pathway.

#### 6.2 Environmental precautions:

Mineral spirits is considered dangerous to the environment. Ensure containment of product is secure.

#### 6.3 Methods for cleaning up:

Cover spill with sand or other inert materials. Avoid using rags in order to avoid fires. Clean contaminated surfaces with soap solution.

#### 6.4 Disposal:

Collect contaminated sand in containers and contact local authorities for further direction.

### 7. Handling and Storage

**7.1 Handling:**

Use approved combustible liquid storage containers. Keep product away from sparks, flames and other ignition sources. Post 'NO SMOKING' signs in area of storage and use. Do not use near welding operations, flames or hot surfaces. Prevent release of vapours and mist into workplace air. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills and leaks etc.) readily available. Label all containers. Keep containers closed when not in use. Empty containers may contain residues which are hazardous. Ensure personal hygiene is maintained when using this product.

**7.2 Storage:**

Store at temperatures not exceeding 37°C. Keep cool. Store locked up.

**8. Exposure Controls/Personal Protection****8.1 Exposure limits:**

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
8052-41-3	Mineral turpentine	100 ppm, 525 mg/m <sup>3</sup> . (WES NZ)	No data.
12001-85-3	Zinc naphthenate	No data.	No data.

**8.2 Engineering Controls:**

Use only in well ventilated areas.

**8.3 Exposure controls:**

Control	Protective measure
Eye	Avoid contact with eyes. Use safety glasses to eliminate product entering eye.
Respiratory	When working near the WES use a respirator and correct cartridge.
Skin	Use chemically resistant gloves to reduce incidence of skin irritancy.

**9. Physical and Chemical Properties****9.1 General substance properties:**

Property	Details
Appearance	Semi-clear brown liquid
Odour	Characteristic hydrocarbon
pH	No data.
Vapour pressure	1.5-4.0 hPa @ 20°C
Viscosity	31 cP @ 20°C
Boiling Point	154°C to 202°C (based in mineral turpentine (65%)).
Volatile materials	No data.
Freezing/melting point	No data.
Solubility	Soluble in organic solvents
Specific gravity/density	0.949 @ 20°C
Flash point	36°C
Danger of explosion	Product may explode under extreme heat.
Auto-ignition temperature	No data.
Upper and lower flammability limits	No data.
Corrosiveness	No data.

**10. Stability and Reactivity****10.1 Stability:**

Stable under normal conditions.

**10.2 Conditions to avoid:**

Extreme heat.

**10.3 Incompatible materials to avoid:**

Oxidising substances.

**10.4 Hazardous decomposition products:**

Thermal decomposition may result on the release of carbon monoxide, carbon dioxide.

**11. Toxicological Information****11.1 Summary of Toxicity**

Final product is considered to be low-toxic to humans.

**11.2 Acute toxicity:**

Test	Data and symptoms of exposure
Oral	The calculated LD <sub>50</sub> for final product is >5,000 mg/kg. Constituents include zinc naphthenate (>2000 mg/kg, oral, rat).
Dermal	No evidence of dermal toxicity.
Inhaled	No evidence of respiratory toxicity.
Eye	Causes eye irritation.
Skin	Causes mild skin irritation.

**11.3 Chronic toxicity:**

Test	Data and symptoms of exposure
Sensitisation	Final product not considered a sensitiser. No constituent is considered a sensitiser.
Mutagenicity	Final product not considered mutagenic. No constituent is considered mutagenic.
Carcinogenicity	Final product not considered carcinogenic. No constituent is considered carcinogenic.
Reproductive/developmental	Final product not considered a reproductive or developmental toxicant. No constituent is considered a reproductive or developmental toxicant.
Systemic/targeted organs	No sufficient data for zinc naphthenate to determine systemic effects.

**12. Ecological Information****12.1 Ecological properties**

Ecology	Ecological data
Aquatic ecotoxicity	The mineral spirit component of the final product is considered ecotoxic in the aquatic environment (9.1B, fish, 65%). The zinc residue component is considered ecotoxic in the aquatic environment (9.1A, fish, 35%). The final class is 9.1B. NOTE: copper naphthenate is considered 9.1A (fish).
Soil ecotoxicity	No data.
Terrestrial vertebrate	No data.
Terrestrial invertebrate	No data.
Mobility	No data.
Degradability	This product is considered to not rapidly degradable based on its components.

**13. Disposal Considerations**

**11.1 Disposal methods:**

This product may be treated by burning in an incineration facility. Burning must be managed to the performance requirements of regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. This product may also be disposed of in a landfill provided this product is kept separated from contact with explosives, oxidisers and ignition sources at all times. Further details can be provided by the local and regional authorities in regards to compliance with the Resource Management Act.

**11.2 Disposal restrictions:**

The burning operation must not exceed any relevant exposure limits and/or environmental exposure limits set for the substance or any of its components. Disposal in a landfill may only be performed where this product is kept separated from contact with explosives, oxidisers and ignition sources at all times. Disposal in a landfill must also not exceed any relevant exposure limits and/or environmental exposure limits set for the substance or any of its components. Were the substance to ignite, no person or place where a person may legally be, would be exposed to more blast overpressure or heat radiation than that described in regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Disposal of packaging must rendered it incapable of containing any substance and be disposed of in a manner that is consistent with that of the substance it contained. Further details can be provided by the local and regional authorities in regards to compliance with the Resource Management Act.

**11.3 Special precautions for disposal:**

No data.

## 14. Transport Information

**14.1 Dangerous goods transport information:**

Identification	Details	Identification	Details
UN number	1993	Proper shipping name	Flammable liquids, N.O.S.
UN class	3	Subsidiary risk	Ecotoxic.
UN packing group	III	Hazchem code	No data.

**14.2 Transport provisions by land according to the Standard for the Transport of Dangerous Goods on Land (NZS 5433):**

No data.

**14.3 Transport provisions by sea according to the International Maritime Dangerous Goods (IMDG) code:**

No data.

**14.4 Transport provisions by air according to International Civil Aviation Organization (ICAO) Technical Instructions:**

No data.

## 15. Regulatory Information

**15.1 HSNO approval number and Group Standard:**

Group standard: HSR002662

**15.2 Group Standard conditions and other regulations:**

Condition	Requirement
MSDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Labelling	Never remove label or decant into other incompatible and incorrectly marked containers.
Emergency plan	Required when storing >1000 L
Approved handler	Not required by group standard controls.
Tracking	Not required.
Bunding and secondary containment	Required when storing >1000 L
Signage	Signage must be clearly state the hazard (at least visible from 10 m) when stored in quantities >1000 L.
Test certificate	Required when storing >500 L in containers >5 L.
Flammable zone	Required when storing >1000 L
Fire extinguisher	Required when storing >500 L.

## 16. Other Information

**16.1 Date of preparation or revision:**  
Revised July 2013

**16.2 Abbreviations:**

Abbreviation	Description
CAS number	Number assigned to chemical in the Chemical Abstracts Service registry
HAZCHEM code	Code used by fire-fighters to determine correct method of action in the case of fire
HSNO	Hazardous Substances and New Organisms (Act)
ICAO Technical Instructions	International Civil Aviation Organization Technical Instructions
IMDG code	International Maritime Dangerous Goods code controlled by the International Maritime Organization (IMO)
LC <sub>50</sub>	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD <sub>50</sub>	Lethal dose 50% - dose fatal to 50% of the tested population
NZS 5433	New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)
SDS	Safety data sheet
STEL	Short term exposure limit
TWA	Time weighted average (typically measured as 8 hours)
UN number	United nations number
WES	Workplace exposure standard

**16.3 References**

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). [www.epa.govt.nz](http://www.epa.govt.nz).

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 7<sup>th</sup> Edition. [www.mbie.govt.nz](http://www.mbie.govt.nz).