

Code	Description	Size	Colour
44200	Metalex Timber Preserve RTU	4Lt	Green

Recommended use:	Paint-on wood preservative		
HSNO group standard:	HSR002662		
UN number, shipping name and packaging group:	1993, flammable liquids, N.O.S., III		
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
9.1A	Substances that are very ecotoxic in the aquatic environment
9.2C	Substances that are harmful in the soil 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 (%)
Copper naphthenate	1338-02-9	6.1D, 6.3B, 6.4A, 6.9B (oral), 9.1A (fish, algal), 9.1B (crustacean), 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.

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/m3. (WES NZ)	No data.
1338-02-9	Copper naphthenate	No data.	No data.

8.2 Engineering Controls:

No data.

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	Dark green liquid
Odour	Characteristic hydrocarbon
pH	No data.
Vapour pressure	1.5-4.0 hPa @ 20°C
Viscosity	<10 cP @ 20°C
Boiling Point	<10 cP @ 20°C
Volatile materials	No data.
Freezing/melting point	No data.
Solubility	Soluble in organic solvents
Specific gravity/density	0.868 @ 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	Extremely flammable aerosol.
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 LD50 for final product is >5,000 mg/kg. Constituents include copper naphthenate (1897 mg/kg, oral, mouse).
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 considered a sensitiser.
Mutagenicity	Final product not considered mutagenic. No constituent is considered mutagenic.
Carcinogenicity	Final product not considered carcinogenic. No constituent considered carcinogenic.
Reproductive/developmental	Final product not considered a reproductive/developmental toxicant. No constituent is considered a reproductive/developmental toxicant.
Systemic/targeted organs	Copper at concentrations of 67 and 138 mg/kg/day (male and female rats, respectively) was correlated with a reduction in growth of visceral organs (stomach, liver, spleen) over a 90 day treatment. Copper naphthenate is considered toxic to human target organs or systems (6.9B, 35%).

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 copper naphthenate component of the final product is considered very ecotoxic in the aquatic environment 9.1A, fish, 35%). The final product class is 9.1A.
Soil ecotoxicity	Copper concentrations at 50-60 mg/kg in soil have been detrimental to earthworms. Copper naphthenate is considered harmful in the soil environment (9.2C). The final product class is 9.2C.
Terrestrial vertebrate	The calculated LD50 for final product is >5,000 mg/kg. Constituents include copper naphthenate (1897 mg/kg, oral, mouse).
Terrestrial invertebrate	No data.
Mobility	No data.
Degradability	This product is considered to not rapidly degradable based on its components.

13. Disposal Considerations

13.1 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.

13.2 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.

13.3 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	Very 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:

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 >1,000 L.
Approved handler	Required when storing >1,000 L.
Tracking	Not required.
Bundling and secondary containment	Required when storing >1,000 L.
Signage	Required when storing >1,000 L.
Test certificate	Required when storing >500 L in containers >5 L.
Flammable zone	Required when storing >1,000 L.

Fire extinguisher	Required when storing >500 L.
--------------------------	-------------------------------

16. Other Information

16.1 Date of preparation or revision:

Created 17th September 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 ₅₀	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD ₅₀	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.

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 7th Edition. www.mbie.govt.nz.

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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.