

Hazardous Substance, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: TWA Clear Wood Preservative

Recommended use: A wood preservative to protect timber structures from wood decay.

Supplier: Thomson White Australia Pty Ltd
ACN: 057 661 319

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 Dandenong Vic 3175
 Australia

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2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of NOHSC Australia.

Hazard Category:

Xn Harmful
 Xi Irritant

Risk Phrase(s):

R65 Harmful: May cause lung damage if swallowed.

Safety Phrase(s)

S45: In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).
 S53: Avoid exposure - obtain special instructions before use.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
MINERAL TURPENTINE	8030-30-6	>60%
PERMETHRIN	52645-53-1	<2%
NAPHTHENIC ACID, ZINC SALT	12001-85-3	10 - 30%
LINSEED OIL	8001-26-1	<10%
PARAFFIN WAX	8002-74-2	<10%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. If assisting a victim, avoid becoming a casualty, wear a Type A (Organic vapour) respirator (or Air-line respirator in poorly ventilated areas). Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

Ingestion: Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek immediate medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Non-Flammable but is a C1 combustible liquid. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

Fire fighting further advice: On combustion may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Fire and Explosion: Non-Flammable but is a C1 combustible liquid. Evacuate area & contact emergency services. Toxic gases (carbon oxides, hydrocarbons) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire.

Hazchem Code: None Allocated

Suitable extinguishing media: Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of fumes. Collect and recycle if possible, otherwise seal in properly labelled containers or drums for disposal.

LARGE SPILLS

If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, neoprene/nitrile gloves, a Type A (Organic vapour) respirator (where inhalation risk exists), coveralls, an apron and boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar and place in clean, sealed containers for disposal.

7. HANDLING AND STORAGE

Handling: Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas (eg. if container is damaged).

Storage: Store out of direct sunlight and out of the reach of children, in a 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
MINERAL TURPENTINE	-	480	400	-	-	-
PARAFFIN WAX	-	2	2	-	-	-

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Natural ventilation should be adequate under normal use conditions.

Personal protection equipment: OVERALLS, SAFETY SHOES, NITRILE GLOVES, TYPE A (ORGANIC VAPOUR) RESPIRATOR.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	LIGHT YELLOW LIQUID
Odour:	SLIGHT SOLVENT ODOUR
pH:	NOT AVAILABLE
Vapour Pressure:	NOT AVAILABLE
Vapour Density:	NOT AVAILABLE
Boiling Point:	152 - 198 C
Melting Point:	NOT AVAILABLE
Evaporation Rate:	NOT AVAILABLE
Solubility (water):	INSOLUBLE
Specific Gravity:	0.8

% Volatiles:	NOT AVAILABLE
Flammability:	NON FLAMMABLE
Flash Point:	> 64 C
Upper Explosion Limit:	NOT AVAILABLE
Lower Explosion Limit:	NOT AVAILABLE
Autoignition Temperature:	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: No information Available.

Incompatible Materials: Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulfuric acid).

Hazardous decomposition products: May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

Hazardous reactions: No information Available.

11. TOXICOLOGICAL INFORMATION

Moderate toxicity - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and vapour generation - inhalation. Chronic exposure to organic solvents may cause liver, kidney and central nervous system damage.

Acute Effects

Inhalation: Irritant. Inhalation may cause irritation to the respiratory system, nose and throat irritation, coughing, and headache. Over exposure may result in nausea, dizziness and drowsiness.

Skin contact: Irritant. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.

Eye contact: Irritant. Contact may result in lacrimation, irritation, pain, redness and conjunctivitis. Prolonged contact - corneal burns and possible permanent damage.

Ingestion: Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. Aspiration may result in chemical pneumonitis and pulmonary oedema.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity

No LD50 data available for the product. However, for the constituent:

MINERAL TURPENTINE (8030-30-6)

LD50 (Skin) : > 3000 mg/kg (rabbit)

LD50 (Ingestion): > 5000 mg/kg (rat)

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) Boron

Oral LD50 (rat): 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: 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.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal: For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

Legislation: Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule (Aust): S5

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Literary reference

This Material Safety Data Sheet has been prepared by Thomson White Australia Pty Ltd.

Reason(s) For Issue: New Product.

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since TWA Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.