

SAFETY DATA SHEET

Product Name CHAINDRITE PROFESSIONAL TIMBER PROTECTION

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier name SHERWOOD CHEMICALS AUSTRALASIA PTY LTD

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Synonym(s) 0. 5 TO 1.5G BIFENTHRIN PER LITRE OF WATER • BIFENTHRIN 100 G/LT EMULSIFIABLE

CONCENTRATE

Use(s) INSECTICIDE • TERMICIDE

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2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Risk Phrases

R22 Harmful if swallowed.

R61 May cause harm to the unborn child.

R65 Harmful: May cause lung damage if swallowed.

Safety Phrases

S2 Keep out of reach of children.S7 Keep container tightly closed.

Keep away from food, drink and animal feeding stuffs.Do not breathe gas/fumes/vapour/spray (where applicable).

S25 Avoid contact with eyes.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number3082Transport Hazard Class9Packing GroupIIIHazchem Code•3Z

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EC Number	Content
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	64742-94-5	265-198-5	>60%
BIFENTHRIN	82657-04-3	617-373-6	10%
1-METHYL-2-PYRROLIDONE	872-50-4	212-828-1	5%
EMULSIFIER(S)	-	-	10 to 30%

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until

advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

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Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running

water.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

Advice to doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Combustible. May evolve toxic gases (carbon oxides, fluorides, chlorides, hydrocarbons) when

heated to decomposition.

Fire and explosion Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation.

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

and nearby storage areas.

Extinguishing Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

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Alcohol Resistant Foam is the preferred firefighting medium. Else use;

3 Normal Foam (protein based foam that is not alcohol resistant).

Z Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all

unprotected personnel. Ventilate area where possible. Contact emergency services where

appropriate.

Environmental precautions Prevent product from entering drains and waterways.

Methods of cleaning up Contain spillage, then cover / absorb spill with sodium carbonate or similar, collect and place in

suitable containers for treatment and/or disposal. Only trained personnel should undertake clean up.

References See Sections 8 and 13 for exposure controls and disposal.

7. STORAGE AND HANDLING

Storage Do not store near sources of ignition or incompatible materials. Containers should be stored below

45°C in a secure area and upright to prevented from falling. Containers should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably

concrete), away from areas of heavy traffic and emergency exits.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards

Ingredient	Reference	TWA		STEL	
ingredient	Reference	ppm	mg/m³	ppm	mg/m³
1-Methyl-2-pyrrolidone	SWA (AUS)	25	103	75	309

Biological limits No Biological Limit Value allocated.

Ingredient	Determinant	Sampling Time	BEI
1-METHYL-2-PYRROLIDONE	5-hydroxy-N-methyl-2-pyrrolidone in urine	End of shift	100 mg/L

Reference: ACGIH Biological Exposure Indices

Engineering controlsAvoid inhalation. If using indoors, ensure there is adequate natural ventilation. Increase air flow by opening windows/doors or using mechanical extraction units. Maintain vapour levels below the

recommended exposure standard.



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PPE

Eye / Face Wear splash-proof goggles.

Hands Wear viton (R) or nitrile gloves. If spraying, wear full-length viton (R) or full-length nitrile gloves.

Body Wear coveralls and rubber boots. If spraying, wear a washable hat.

Respiratory Wear a Type A (Organic vapour) respirator. If spraying, wear a Full-face Type A-Class P1 (Organic

gases/vapours and Particulate) respirator or an Air-line respirator.











9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance PALE TO AMBER COLOURED LIQUID Odour CHARACTERISTIC SOLVENT ODOUR

Flammability CLASS C1 COMBUSTIBLE

Flash point > 62.5°C

Boiling point NOT AVAILABLE
Melting point NOT AVAILABLE
Evaporation rate NOT AVAILABLE
pH NOT AVAILABLE
Vapour density NOT AVAILABLE

Specific gravity 0.91

Solubility (water) **INSOLUBLE** Vapour pressure NOT AVAILABLE **Upper explosion limit** NOT AVAILABLE Lower explosion limit NOT AVAILABLE Partition coefficient NOT AVAILABLE **Autoignition temperature** NOT AVAILABLE **Decomposition temperature** NOT AVAILABLE **Viscosity** NOT AVAILABLE NOT AVAILABLE **Explosive properties Oxidising properties** NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended conditions of storage.

NOT AVAILABLE

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources.

Material to avoid Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), heat and ignition

sources.

Hazardous Decomposition

Products

Odour threshold

May evolve toxic gases (carbon oxides, fluorides, chlorides, hydrocarbons) when heated to

decomposition.

Hazardous Reactions Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health HazardToxic. This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Upon dilution, the potential for adverse health effects may

be reduced. Chronic exposure may result in liver, kidney, blood and central nervous system (CNS)

damage. May cause harm to the unborn child.

Eye Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with

prolonged contact.

Inhalation Irritant. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing

and headache. High level exposure may result in CNS stimulation with nervousness, salivation, dizziness, tremors, breathing difficulties (wheezing) and unconsciousness. Acute inhalation LC50 =

8.7 mg/L/4 hour

Skin Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May be absorbed

through skin with harmful effects. The dermal LD50 (rabbit) > 2000 mg/kg

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Ingestion Harmful. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, dizziness and

unconsciousness. Harmful. May cause lung damage if swallowed. LD50 (rat) = 540 mg/kg

(calculated).

Toxicity data SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC (64742-94-5)

LC50 (inhalation) > 590 mg/m³/4 hours (rat)

LD50 (skin) > 2 mL/kg (rabbit) LDLo (ingestion) 5 mL/kg (rat)

BIFENTHRIN (82657-04-3)

LC50 (inhalation)
4.9 mg/l/4 hours (rat)
LD50 (ingestion)
54.5 mg/kg (rat)
LD50 (skin)
2 g/kg (rabbit)

1-METHYL-2-PYRROLIDONE (872-50-4)

LD50 (ingestion) 3914 mg/kg (rat)
LD50 (intraperitoneal) 2742 mg/kg (rat)
LD50 (intravenous) 54.5 mg/kg (mouse)
LD50 (skin) 8000 mg/kg (rabbit)
LD50 (subcutaneous) > 2000 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Toxicity The active ingredient, Bifenthrin, is highly toxic to fish and aquatic arthropods with LC50 values

ranging from 0.0038 μ g/L to 17.8 μ g/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on molluscs at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds with LC50 values range from 1800 mg/kg to > 2,150 mg/kg. Do not contaminate

sewers, drains, dams, creeks or any other waterways with product or the used container.

Persistence and degradability No information provided.

Bioaccumulative potential No information provided.

Mobility in soil No information provided.

Other adverse effects Synthetic pyrethroids have been shown to be toxic to fish, aquatic arthropods and bees in laboratory

tests. However, in practical use, no serious adverse effects have been reported due to the small quantities used and lack of persistence in the environment. The toxicity of synthetic pyrethroids in birds and domestic animals is low [WHO; Environmental Health Criteria 99: Cyhalothrin p.13 (1990)].

13. DISPOSAL CONSIDERATIONS

Waste disposal Residual product will be disposed of when the container is returned. Contact the

manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE





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	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	3082	3082	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport Hazard Class	9	9	9
Packing Group	III	III	III

Environmental hazards

No information provided

Special precautions for user

 Hazchem code
 •3Z

 GTEPG
 9C1

 EMS
 F-A, S-F

15. REGULATORY INFORMATION

Poison schedule

Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP).

Inventory Listing(s)

AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



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Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

Revision history

Revision	Description
1.0	Initial SDS Creation

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

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End of SDS



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