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## MATERIAL SAFETY DATA SHEET

# CuGard 20 / CuGard 20 WR

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** CuGard 20 / CuGard 20 WR  
**Product type:** Biocidal surface treatment for timber  
**Supplier:** **TIMBERLIFE (PTY) LTD**  
P.O. Box 73117, Lynnwood Ridge 0040, South Africa  
Tel.: + 27-12-803-8595  
Fax: + 27-12-803-8462  
E-mail: [timberlife@icon.co.za](mailto:timberlife@icon.co.za)  
Website: [www.timberlife.co.za](http://www.timberlife.co.za)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**CuGard 20** contains copper naphthenate (biocide) in aliphatic petroleum solvent and **CuGard 20 WR** contains additional waxy and drying oil additives.

#### Chemical nature and use:

**CuGard 20 / CuGard 20 WR** is an organic solvent-based, ready-for-use biocidal formulation for timber treatment. It provides superficial fungicidal and insecticidal protection to exposed untreated timber and stains the wood to a greenish colour. It also affords some water repellency, leach resistance and fixation to the wood structure. After absorption into the timber and subsequent drying, it can be painted over with most organic-based wood coatings.

**CuGard 20 WR** also contains additional waxes and drying oils to provide added water repellency and exterior protection to wood.

**CuGard 20 / CuGard 20 WR** is ideal for treating ends of CCA treated poles after cross-cutting, e.g. thatch roof and lapa poles. Also suitable for treatment and protection of beehives.

#### Pesticidal active ingredient:

Copper naphthenate (expressed as copper metal) .....20 g.a.i /ℓ (min)

#### Other ingredients:

Blend of waxy and drying oils in aliphatic petroleum solvent.

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## 3. HAZARD IDENTIFICATION

### Most important hazards:

- Human health effects  
  
Moderately toxic if ingested  
May cause irritation to skin and eyes  
Moderately irritating by inhalation.
- Environmental effects  
  
Toxic to both plant and aquatic life
- Physical hazards  
  
Flammable.

## 4. FIRST-AID MEASURES

### Ingestion:

Seek medical attention immediately. Do not induce vomiting. Rinse out mouth and drink lots of water to dilute. If vomiting occurs, drink more water. Note: Do not give anything orally to an unconscious person.

### Skin contact:

Immediately remove all contaminated clothing and wash with soap and water. If irritation develops and persists, seek medical attention.

### Eye contact:

Immediately flush with fresh water for at least 15 minutes. Seek medical attention immediately should irritation develop.

### Inhalation:

Remove patient to fresh air. Administer artificial respiration and/or oxygen if necessary. Seek medical attention.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media:

Use dry chemical powder, sand, foam or CO<sub>2</sub>. Do not use water.

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## **Flammability:**

Product is flammable due to solvent content.

## **Specific hazards:**

Traces of toxic gases when exposed to high temperatures must be expected.

## **Protective clothing:**

Self contained breathing apparatus. PVC gloves. Cotton or polyester overalls. Safety glasses or goggles.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions:**

Wear gloves, safety glasses or splash-proof goggles and cotton or polyester overalls.

### **Environmental precautions:**

Avoid contamination of rivers, dams or canals.  
Prevent spillage from entering drains and ditches.

### **Methods for cleaning up:**

Absorb or dike with inert material such as sand or diatomaceous earth. Then dispose of at a class 1 disposal site.

## **7. HANDLING AND STORAGE**

### **Handling:**

Avoid contact with eyes and skin.

Avoid inhalation of spray and vapour.

Wear suitable gloves and eye face protection.

After contact with the skin, immediately wash with soap and water.

Do not eat, drink or smoke while using the product.

Do not discharge into rivers, dams and canals.

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## Storage:

Keep out of reach of children, uninformed persons, and animals.

Flammable liquid. Do not store near sources of sparks, flame or heat.

Store away from oxidising agents.

Store in a cool, dry place away from food and foodstuffs.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure controls and monitoring:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### Personal protective equipment:

Wear suitable protective clothing such as overalls, rubber gloves and safety goggles during handling and use of the product.

In confined spaces the use of approved respiratory equipment for protection from mists of pesticides is recommended.

### Hygiene measures:

Wash hands with soap and water before eating, drinking or smoking.

Wash overalls and clothes regularly.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	: Organic liquid
<b>Colour</b>	: Dark green or greenish amber coloured
<b>Odour</b>	: Aliphatic
<b>pH</b>	: Not applicable
<b>Melting point</b>	: Not determined
<b>Decomposition temperature</b>	: Not available
<b>Flammability</b>	: Flammable due to solvent content
<b>Explosion properties</b>	: Not explosive
<b>Flash point (closed cup)</b>	: Above 40°C
<b>Density @ 20°C</b>	: 0,795 to 0,835 kg/ℓ
<b>Solubility</b>	: Organic solvents

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## 10. STABILITY AND REACTIVITY

- Stability** : Stable under normal temperatures and pressures  
**Conditions to avoid** : Elevated temperatures and open flames  
**Materials to avoid** : Strong oxidising agents; alkalis  
**Hazardous decomposition products** : Copper compounds and carbon monoxide

## 11. TOXICOLOGICAL INFORMATION

- Acute toxicity** :
  - Oral LD<sub>50</sub> (rat) - Over 2000 mg/kg
  - Dermal LD<sub>50</sub> (rat) - Over 2000 mg/kg
  - Inhalation LC<sub>50</sub> (rat) - 0,75 mg/l/hour
- Local effects** : See Section 3, "Human health effects"
- Chronic toxicity** : No evidence of carcinogenic or mutagenic effects  
May cause sensitisation by repeated skin contact

## 12. ECOLOGICAL INFORMATION

- Environmental effects** : See Section 3, "Environmental effects"
- Mobility** : Active ingredient has low mobility in soil due to water insoluble nature.
- Degradability** : Practically biodegradable apart from copper metal component.
- Bioaccumulation** : By following the recommended application procedures and rates, it is unlikely that bioaccumulation will attain levels of environmental significance.
- Ecotoxicity** : **Birds:**  
Moderately toxic to birds.
- Fish:**  
Highly toxic to fish.
- Bees:**  
Virtually non-toxic to bees once solvent has evaporated from treated timber (can be used to treat beehives).

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## 13. DISPOSAL CONSIDERATIONS

- Product waste** : Dispose of in accordance with prevailing local regulations. Avoid contamination of soil and water by waste product. Whenever possible, any waste product should be recovered and re-used.
- Packaging material** : Do not re-use containers. Puncture all plastic containers. Flatten all metal containers.

## 14. TRANSPORT INFORMATION

- UN Number** : 1263 (copper naphthenate)  
**ADR / RID** : 6.1 Subsidiary Risk 3  
**IMDG / IMO** : 6.1 Subsidiary Risk 3  
**ICAO / IATA** : 6.1 Subsidiary Risk 3  
**Packaging Group** : III  
**Road/Rail** : Pesticide, organic, liquid, toxic, flammable.  
**Air / IATA** : Pesticide, organic, liquid, toxic, flammable.  
**Sea** : Pesticide, organic, liquid, toxic, flammable.  
Marine pollutant.  
**Correct technical name** : Paint related material, UN 1263.

## 15. REGULATORY INFORMATION

- Symbol** : X<sub>i</sub>  
**Indication of danger** : Harmful, Irritant.  
**Hazard determining component** : Copper naphthenate  
**Risk phrase(s):**  
**R 20/22** : Harmful by inhalation and if swallowed,  
**R 36/37/38** Irritating to eyes, respiratory system and skin.  
**R 43** : May cause sensitisation by skin contact.  
**R 50** : Very toxic to aquatic organisms.  
**Safety phrases:**  
**S 2** : Keep out of reach of children.  
**S14** : Keep away from sources of ignition, alkalis and oxidising agents.  
**S 23** : Do not breathe vapour/spray.  
**S 24/25** : Avoid contact with skin and eyes.  
**S 36/37/38** : Wear suitable protective clothing, gloves and eye/face protection.

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## 16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product.

**Compiled:** August 2002