

CTX 108



**TimberLife**

---

**MATERIAL SAFETY DATA SHEET**

**CTX 108**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** CTX 108  
**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  
Website: [www.timberlife.co.za](http://www.timberlife.co.za)

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

**CTX 108** is a mixture of a synthetic pyrethroid (insecticide) and an organosulphur compound (fungicide) in aliphatic and aromatic petroleum solvents.

**Chemical nature and use:**

**CTX 108** is a a ready-for-use organic solvent-based solution containing specifically blended insecticidal and fungicidal active ingredients that provides a colourless surface treatment for protection of seasoned timber against wood borer and termite attack as well as discolouring fungi and mould growth. **CTX 108** contains a high level of insecticide to provide long term protection and also to control and eradicate wood boring insects in infested timber.

On application, the organic solvent provides a degree of penetration of the active ingredients into the wood structure and ensures rapid drying of the treated surfaces. After drying, any coating/finish can be applied on the treated wood surface.

**Pesticidal active ingredient:**

Cypermethrin (Synthetic pyrethroid) ..... 10 g.a.i./ℓ (min)  
2 – (thiocyanomethylthio) benzothiazole (Organosulphur compound) ..... 8 g.a.i./ℓ (min)

# CTX 108

## Other ingredients:

Blend of aliphatic and aromatic petroleum solvents.

## 3. HAZARD IDENTIFICATION

**CTX 108** is registered with the South African Department of Agriculture, Forestry and Fisheries in terms of Act No.36 of 1947 as a toxicity group II product (Yellow band), i.e. "Moderately hazardous" (Reg. No. L7445).

### Most important hazards:

- Human health effects

Moderately toxic if ingested

May cause moderate to severe irritation to skin

May cause moderate to severe irritation and is harmful to eyes

Irritating and moderately toxic by inhalation.

- Environmental effects

Toxic to both plant and aquatic life

- Physical hazards

Highly flammable. Thermal decomposition results in release of toxic fumes.

## 4. FIRST-AID MEASURES

### Ingestion:

Seek medical attention immediately. Do not induce vomiting. Drink lots of milk or 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. Continue flushing for another 15 minutes if medical attention does not arrive promptly.

# CTX 108

## **Inhalation:**

Remove patient to fresh air. Administer oxygen if necessary. If patient stops breathing administer artificial respiration. Seek medical attention immediately.

## **5. FIRE-FIGHTING MEASURES**

### **Extinguishing media:**

Use dry chemical powder, sand, foam or CO<sub>2</sub>.

### **Flammability:**

Product is highly flammable due to solvent content.

### **Specific hazards:**

May release irritating and toxic gases when exposed to high temperatures. Product may decompose if heated above 60°C.

### **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. In confined spaces wear respiratory equipment.

### **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.

# CTX 108

## 7. HANDLING AND STORAGE

### Handling:

Avoid contact with eyes and skin.

Avoid inhalation of spray and vapour.

Wear suitable gloves.

Wear eye face protection.

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

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

Do not discharge into rivers, dams and canals.

### Storage:

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

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

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Limit** : TLV/TWA : 500 ppm (ACGIH) calculated.

### 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.

# CTX 108

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	:	Transparent organic liquid
<b>Colour</b>	:	Yellowish-brown
<b>Odour</b>	:	Aromatic
<b>PH</b>	:	Slightly acidic
<b>Temperature stability</b>	:	Stable at temperatures of up to 60°C
<b>Melting point</b>	:	60 - 80°C (Technical material)
<b>Decomposition temperature</b>	:	Above 60°C
<b>Flammability</b>	:	Highly flammable due to solvent content
<b>Explosion properties</b>	:	Not established
<b>Flash point</b>	:	Above 40°C (ASTM D-93)
<b>Density @ 20°C</b>	:	0,88 kg/l
<b>Solubility</b>	:	Aromatic solvents

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	:	Stable in neutral and acidic media
<b>Conditions to avoid</b>	:	Elevated temperatures
<b>Materials to avoid</b>	:	Strong oxidants and alkalis
<b>Hazardous decomposition Products</b>	:	Toxic fumes of SO <sub>x</sub> , CN <sup>-</sup> , Cl <sup>-</sup> and NO <sub>x</sub> may be evolved on combustion if heated above 60°C

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	:	<ul style="list-style-type: none"><li>• Oral LD<sub>50</sub>(rat) - Over 2565 mg/kg</li><li>• Dermal LD<sub>50</sub>(rat) - Over 8000 mg/kg</li><li>• Inhalation LC<sub>50</sub> (rat) - Over 2,5 mg/l of air over 4 hours (Technical material)</li></ul>
-----------------------	---	---

**Local effects** : See Section 3, "Human health effects"

**Chronic toxicity** : No evidence of carcinogenic or mutagenic effects

May cause asthma (inhalation over a long period) or dermatitis (if absorbed by the skin over a long period)

# CTX 108

## 12. ECOLOGICAL INFORMATION

- Environmental effects** : See Section 3, "Environmental effects"
- Mobility** : Active ingredients have low mobility and strongly absorbs to soil.
- Degradability** : Practically biodegradable but has a bactericidal effect.
- Bioaccumulation** : Due to biodegradation and recommended application rates, it is unlikely that bioaccumulation will attain levels of environmental significance.
- Ecotoxicity** : **Birds:**  
Minimally toxic to birds (data for technical material)  
Acute oral LD<sub>50</sub>: > 10000 mg/kg (mallard ducks)  
> 2000 mg/kg (chickens)
- Fish:**  
Toxic to fish (data for technical material)  
LC<sub>50</sub> (96 hr) : 0.69 µg/l (rainbow trout)
- Bees:**  
Highly toxic to bees (data for technical material)  
LD<sub>50</sub> (oral) : 0,035 µg/bee  
LD<sub>50</sub> (topical): 0,02 µg/bee
- Daphnia:**  
Very toxic to *Daphnia magna* (data for technical material)  
The 48-hour LC<sub>50</sub> is 0,15 µg/l

## 13. DISPOSAL CONSIDERATIONS

- Product waste** : Dispose of in accordance with prevailing disposal 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.

# CTX 108

## 14. TRANSPORT INFORMATION

<b>UN Number</b>	:	2903 (cypermethrin) 2810 (2 – (thiocyanomethylthio) benzothiazole)
<b>ADR / RID</b>	:	6.1 Subsidiary Risk 3
<b>IMDG / IMO</b>	:	6.1 Subsidiary Risk 3
<b>ICAO / IATA</b>	:	6.1 Subsidiary Risk 3
<b>Packaging Group</b>	:	III
<b>Road/Rail</b>	:	Pesticide, organic, liquid, toxic, flammable.
<b>Air / IATA</b>	:	Pesticide, organic, liquid, toxic, flammable.
<b>Sea</b>	:	Pesticide, organic, liquid, toxic, flammable. Marine pollutant.

## 15. REGULATORY INFORMATION

<b>Symbol</b>	:	X <sub>n</sub> , X <sub>i</sub>
<b>Indication of danger</b>	:	Harmful, Irritant.
<b>Risk phrase(s):</b>		
<b>R 20/22</b>	:	Harmful by inhalation and if swallowed,
<b>R 36/37/38</b>	:	Irritating to eyes, respiratory system and skin.
<b>R 41</b>	:	Risk of serious damage to eyes.
<b>R 43</b>	:	May cause sensitisation by skin contact.
<b>R 50</b>	:	Very toxic to aquatic organisms.
<b>R 57</b>	:	Highly toxic to bees.
<b>Safety phrases:</b>		
<b>S 2</b>	:	Keep out of reach of children.
<b>S 23</b>	:	Do not breathe vapour/spray.
<b>S 24/25</b>	:	Avoid contact with skin and eyes.
<b>S 36/37/38</b>	:	Wear suitable protective clothing, gloves and eye/face protection.

## 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:** July 2002