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# EcwaCide IT

## MATERIAL SAFETY DATA SHEET

### 1 IDENTIFICATION OF SUBSTANCE

#### PRODUCT DETAILS

TRADE NAME: EcwaCide IT  
PRODUCT CODE: FecEcwaCide IT

#### Manufacturer/Supplier:

Ecwamix Chemical Systems (Pty) Ltd  
3 Granville Avenue Lea Glen Roodepoort, Gauteng South Africa

#### Information

Tel: (o/h) +27 011 472 2256 Fax: +27 011 472 2121  
E-mail: ecwamix@netactive.co.za

#### Emergency contact:

Office hours: 011 472 2256

### 2 COMPOSITION/INFORMATION ON COMPONENTS

#### CHEMICAL CHARACTERIZATION

**Description:** Microbicide - Isothiazolone based.

**Dangerous components:** 55965-84-9 a mixture of: 5-chlor-2-methyl-2H isothiazole-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazole-3-one [EC no. 220-239-6] (3:1)

T, N, C; R 23/24/25-34-43-50/53

**Additional information:** The CAS No.'s for the individual components is- CIT 26172-55-4 and MIT 2682-20-4

### 3 HAZARDS IDENTIFICATION

**HAZARD DESIGNATION:** T – TOXIC, N - DANGEROUS FOR THE ENVIRONMENT, C - CORROSIVE

**Information pertaining to particular dangers for man and the environment:** R 20/21/22 Harmful by inhalation, skin contact and if ingested, R 34 Causes burns, R 43 May cause sensitisation (dermal), R 50 Very toxic to aquatic organisms.



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#### **4 FIRST AID MEASURES**

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation:** If symptoms arise, seek medical treatment.

**After skin contact:** Immediately wash with soap and water and rinse thoroughly. If skin irritation occurs, get medical attention. Treat with topical antihistamines and corticoids.

**After eye contact:** Rinse opened eye for several minutes under running water. Get medical attention.

**After swallowing:** Do not induce vomiting! Get medical assistance. Rinse mouth thoroughly followed by drinking plenty of water. Administer activated charcoal.

**NOTE TO PHYSICIAN:** Corrosive material. Probable mucosal damage may contraindicate the use of gastric lavage. It is inadvisable to induce vomiting. Measures against circulatory shock, respiratory depression, and convulsions may be needed.

#### **5 FIRE FIGHTING MEASURES**

**Not Flammable**

**Protective equipment:** Wear self-contained breathing apparatus.

#### **6 ACCIDENTAL RELEASE MEASURES**

**Personal safety precautions:** Wear protective clothing. Keep unprotected persons away.

**Measures for environmental protection:** Do not allow to spread! Contain spills by dusting an absorbent "ring" (using binders, sawdust, diatomite, sand, etc.). Notify authorities if the product enters ground water or sewerage systems.

**Measures for cleaning/collecting:** Soak up with inert absorbent material (sand, sawdust, diatomite, etc).

**Dispose of contaminated material in accordance with item 13.**

**Contaminated Surfaces can be de-active with a solution of:**

- a.) Household bleach + 5% Sodium bicarbonate
- b.) 5% Sodium Bisulphite + 5% Sodium bicarbonate



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### 7 HANDLING AND STORAGE

#### HANDLING

**Information for safe handling:** Always ensure good ventilation. Prevent formation of aerosols.

**Information about protection against explosion & fire:** No special measures required.

#### STORAGE

**Requirements to be met by storerooms and containers:** Keep containers tightly closed!

**Use only plastic packaging** - HDPE (High density polyethylene).

**Information about storage in a common storage facility:** Do not allow contact with metals.

**Further information about storage conditions:** Store in a cool environment, away from sunlight.

### 8 EXPOSURE CONTROLS & PERSONAL PROTECTION

**Additional information about design of technical systems:** No further data; see item 7.

**Components with critical values that require monitoring at the workplace:**

**Additional information:** Information valid at the time of review of MSDS.

#### PERSONAL PROTECTIVE EQUIPMENT

**General protective and hygienic measures:** Avoid contact with eyes and skin. Do not inhale vapours or fumes. Immediately remove any clothing that is soiled/contaminated with this product. Use a "barrier" cream for skin protection. The usual precautionary measures should be adhered to in handling the chemicals.

**Respiratory protection:** Use a gas mask to protect from vapours.

**Protection of hands:** Protective nitrile gloves.

**Eye protection:** Tightly sealed safety glasses.

**Body protection:** Protective work clothing.



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#### 9 PHYSICAL & CHEMICAL PROPERTIES

**Physical state:** Liquid

**Appearance:** Clear to yellow

**Melting point:** N/A

**Boiling point:** ca. 100°C

**Flash Point:** N/A - Not flammable

**Explosive Properties:** None

**Vapor pressure:** Not determined

**Relative density:** 1.21 - 1.24 g/cm<sup>3</sup>

**Solubility:** Fully soluble in water

**pH value at 20°C:** 1.7 - 3.2

**Organic Solvent content:** None

**Solids content (%):** 23 - 26%

#### 10 STABILITY & REACTIVITY

**Stability:** The product is stable

**Conditions to avoid:** Excessive heat (>40°C).

**Minimum Shelf life:** 12 months from date of manufacture.

**Materials to be avoided:** Alkalis, strong reduction agents, nucleophiles.

**Dangerous products of decomposition:** None if stored and used as recommended.



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### 11 TOXICOLOGICAL INFORMATION

**Acutetoxicity:** N/A

**LD/LC50 values that are relevant for classification:** 55965-84-9 a mixture of: 5-chlor-2-methyl-2H-isothiazole-3-one [EC no. 247-500-7] and 2-methyl-4- isothiazole-3-one [EC no. 220-239-6] (3:1)

<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
LD50	67 mg/kg rat	Oral	Rat
LD50	> 140 mg/kg rat	Dermal	Rat
LC50	4h 0.17 mg/Lt	Inhalative	Rat

**PRIMARY IRRITANT EFFECT**

**Skin contact:** Oxidative effect on skin and mucous membranes.

**Eye contact:** Oxidative and very irritant effect.

**Sensitization:** Likely sensitizing effect.

### 12 ECOLOGICAL INFORMATION

**Information about elimination (persistence and degradability):**

**METHOD:** OECD 301D (CLOSED BOTTLE TEST)

**Analysing method:** BOD

**Degree of elimination:** > 60 %

**Other information:** The components are readily biodegradable. The product is eliminated in wastewater treatment plants by physical and biological means.

**Ecotoxicological effects:**

**Aquatic toxicity:** 55965-84-9 a mixture of: 5-chlor-2-methyl-2H-isothiazole-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazole-3-one [EC no. 220-239-6] (3:1)

<u>Test</u>	<u>Time (h)</u>	<u>Result</u>	<u>Species</u>
EC50	120	0.043 mg/Lt	Filamentous Algae
EC50	48	0.12 mg/Lt	Daphnia
LC50	96	0.32 mg/Lt	Bluegill Sunfish
LC50	96	0.22 mg/Lt	Rainbow trout
NOEC		0.035 mg/Lt	Daphnia

**Remark:** Possible toxic effect on sludge organisms when at concentrations >6ppm a.i.



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## **12 ECOLOGICAL INFORMATION**

### **ADDITIONAL ECOLOGICAL INFORMATION**

**AOX indication:** Can influence the AOX value of effluent water. The product is not persistent and is degraded through the separation of the Cl ion. Heavy metals and compounds (according to EC guideline NO. 76/464 EC): None"

## **13 DISPOSAL CONSIDERATIONS**

### **PRODUCT**

**Recommendation:** Always consult local legislative bylaws. If in doubt hand over to a specifically authorized hazardous waste treatment plant.

### **CONTAMINATED PACKAGING**

**European waste catalogue:** Waste key numbers in accordance with the European waste catalogue (EWC) are origin-referred. Since this product is used in several industries, no waste key number can be given by the manufacturer. The waste key number is to be determined in arrangement with your waste disposal partner or the responsible authority.

**Recommendation:** Packaging must be destroyed!

**Recommended cleaning agent:** Either of the suggested de-activation solutions (see item 6.)

## **14 TRANSPORT INFORMATION**

### **LAND TRANSPORT ADR/RID AND GGVS/GGVE (CROSS-BORDER/DOMESTIC)**

**ADRIR Class:** 8 (C9) Corrosive substances.

**Kermler Number:** 80

**UN-Number:** 1760

**Packaging group:** III

**Label:** 8

**Designation of goods:** 1760 CORROSIVE LIQUID, NO.5. (Mixture, containing 5-Chloro-2-methyl-4-isothiazol-3-one and 2-Methyl-4-isothiazol-3-one (3:1))



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## 14 TRANSPORT INFORMATION

### MARITIME TRANSPORT IMDG/GGVS

**IMDG Class:** 8

**UN-Number:** 1760

**Label: 8 Packaging group:** III

**EMS Number:** F-AS-B

**Marine pollutant:** No

**Correct Technical name:** CORROSIVE LIQUID, N.O.S (Mixture, containing 5- Chloro-2-methyl-4-isothiazol-3-one and 2-Methyl-4-isothiazol-3-one (3:1))

**Marine pollutant:** No

### AIR TRANSPORT ICAO-TL AND IATA-DGR

**ICAO/IATA Class:** 8

**UN-Number:** 1760

**Label:** 8

**Packaging group:** III

**Correct Technical name:** CORROSIVE LIQUID, N.O.S (Mixture, containing 5- Chloro-2-methyl-4-isothiazol-3-one and 2-Methyl-4-isothiazol-3-one (3:1))

**Remarks:** Packing Instructions/Max. nett weight

## 15 REGULATORY INFORMATION

**Designation according to EC guidelines:** The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (CHIP).

**NCode letter and hazard designation of product:** C - Corrosive

**Hazard-determining components of labelling:** A mixture of 5-chlor-2-methyl-2H isothiazole-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazole-3-one [EC no. 220-239-6] (3:1)

### Risk Phrases:

R 34 Causes burns

R 43 May cause sensitisation (dermal)





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## **15 REGULATORY INFORMATION**

### **Safety Phrases:**

- 26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39** Wear suitable protective clothing, gloves and eye/face protection.
- 45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 60** This material and its container must be disposed of as hazardous waste.
- 61** Avoid release to the environment. Refer to special instructions/safety data sheets.

## **16 OTHER INFORMATION**

### **Notice to Reader.**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Data Specification sheet issued by:** Ecwamix Chemical Systems

**Contact:** Patrick Roux