

# HYGROTECH

SUSTAINABLE SOLUTIONS

## MATERIAL SAFETY DATA SHEET

No:  
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Page 1 of 4

### COMPANY DETAILS

Name: HYGROTECH PROPERTIES (PTY) LTD	Emergency telephone no. +27 12 545 8000
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name: Calmabon Liquid	Chemical abstract no: None
Chemical family: Fertilizers	NIOSH no.
Chemical name: Inorganic mixture	Hazchem code: None allocated
Synonyms: Cheladrate, EDTA, disodium dihydrogen, edetate disodium, disodium salt	UN no: None allocated

### 2. COMPOSITION

Hazardous components:	Common salts used in general fertilizers: borates, calcium, magnesium salts; disodium salt dehydrate
EEC classification:	
R Phases:	

### 3. HAZARDS IDENTIFICATION

Main hazard:	Irritation to skin and eyes on contact, harmful if swallowed.
Flammability:	Non-flammable; water based
Chemical hazard:	Mildly acidic.
Biological hazard:	Fertilizer: avoid contamination of water sources.
Reproductive hazard:	None
Eye effects:	Eye contact may cause irritation.
Health effects – skin:	Skin contact may cause irritation.
Health effects – ingestion:	Harmful if swallowed. May cause diarrhea, nausea, vomiting and cramps.
Health effects – inhalation:	Inhalation of spray mists may produce respiratory irritation.
Carcinogenicity	Not listed as a carcinogen.
Mutagenicity:	None
Neurotoxicity:	None

#### 4. FIRST AID MEASURES

<b>INHALATION:</b>	Remove to fresh air. Call doctor.
<b>CONTACT WITH SKIN:</b>	Rinse with plenty of water, remove contaminated clothes.
<b>CONTACT WITH EYES:</b>	Flush eyes with plenty of water for 5 minutes. Under eyelids as well. See a doctor.
<b>INGESTION:</b>	Drink plenty of water. Seek medical advice. DO NOT induce vomiting.

#### 5. FIRE-FIGHTING MEASURES

<b>EXTINGUISHING METHODS:</b>	Use water spray, foam, carbon dioxide, dry chemicals.
<b>SPECIAL EXPOSURE HAZARDS:</b>	Emits toxic fumes if on fire.
<b>SPECIAL PROTECTIVE EQUIPMENT:</b>	

#### 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS:</b>	Wear gloves, protective clothing, goggles.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Keep out of sewers, drains, surface and underground water.
<b>SMALL SPILLS:</b>	Mop up. Wash area afterwards.
<b>LARGE SPILLS:</b>	Dike far ahead of liquid spill for later disposal. Following product recovery, flush area with water. Direct application of spillage washings to soil and crops will avoid contamination of surface waters since phosphates are not readily leached from soil. Avoid direct run-off into surface waters.

#### 7. HANDLING AND STORAGE

<b>SUITABLE MATERIAL:</b>	Store in well sealed plastic container in cool dry place.
<b>HANDLING/STORAGE PRECAUTIONS:</b>	Wear protective clothing such as gloves, boots, respirator, goggles and overalls. Store away from combustible materials, herbicides and fungicides.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Occupational exposure limits:</b>	
<b>Engineering control measures:</b>	Extractor system in store area for ventilation.
<b>Personal protection - respiratory:</b>	Respirator
<b>Personal protection – hand:</b>	Rubber gloves
<b>Personal protection - eye:</b>	Goggles
<b>Personal protection - skin:</b>	Protective clothing
<b>Other protection:</b>	Safety showers. Avoid unnecessary contact with product and remove all contaminated clothing. Wash hands and face before eating.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL FORM</b>	
<b>Appearance:</b>	Milky liquid.
<b>pH:</b>	3 – 5
<b>Odour:</b>	Odourless
<b>Boiling point:</b>	> 100 °C
<b>Melting point:</b>	Not applicable: liquid.
<b>Flash point:</b>	Not available.
<b>Flammability:</b>	Non-flammable
<b>Autoflammability:</b>	Non-existent

<b>Explosive properties:</b>	None
<b>Oxidizing properties:</b>	Oxidizing agent.
<b>Vapour pressure:</b>	Not available.
<b>Density:</b>	
<b>Specific gravity:</b>	1.26
<b>Solubility – water:</b>	Soluble
<b>Solubility – solvent:</b>	None
<b>Solubility – coefficient:</b>	None
<b>Neurotoxicity:</b>	None

## 10. STABILITY AND REACTIVITY

<b>CONDITIONS TO AVOID:</b>	Storage near oxidizing agents.
<b>MATERIALS TO AVOID:</b>	Avoid contact with: strong bases – may release ammonia. Avoid contact with: strong oxidizing agents – may decompose.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon monoxide, carbon dioxide, phosphoric acid, nitrogenous gases.

## 11. TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY:</b>	N/A
<b>SKIN AND EYE CONTACT :</b>	Irritation to skin and eyes, harmful when ingested.
<b>CARCINOGENICITY:</b>	N/A
<b>CHRONIC TOXICITY:</b>	N/A
<b>MUTAGENICITY:</b>	N/A
<b>REPRODUCTIVE HAZARDS:</b>	N/A

## 12. ECOLOGICAL INFORMATION

<b>Aquatic toxicity - fish:</b>	N/A
<b>Aquatic toxicity - daphnia:</b>	N/A
<b>Aquatic toxicity - algae:</b>	N/A
<b>Biodegradability:</b>	N/A
<b>Bio-accumulation:</b>	N/A
<b>Mobility:</b>	N/A
<b>German wgk:</b>	N/A

## 13. DISPOSAL CONDITIONS

<b>Disposal methods:</b>	Rinse empty drums with water and add to spray mix.
<b>Disposal of packaging:</b>	Dispose of drum at a suitable site.

## 14. TRANSPORT INFORMATION

<b>UN No.</b>	None allocated.
<b>Substance identity no.</b>	
<b>ADR/RID class:</b>	
<b>ADR/RID hazard identity no:</b>	
<b>IMDG – shipping name:</b>	
<b>IMDG – class:</b>	
<b>IMDG – packaging group:</b>	
<b>IMDG – marine pollutant:</b>	
<b>IMDG – EMS no:</b>	
<b>IMDG – MFAG table no:</b>	

<b>IATA – shipping name:</b>	
<b>IATA – class:</b>	
<b>IATA – subsidiary risk(s):</b>	
<b>ADNR – class:</b>	
<b>UK – description:</b>	
<b>UK – emergency action class:</b>	
<b>UK – classification</b>	
<b>Tremcard no:</b>	

## 15. REGULATORY INFORMATION

<b>EEC hazard classification:</b>	
<b>Risk phases:</b>	Irritation
<b>Safety phases:</b>	DO wash hands after handling material, emits fumes when on fire.
<b>National legislation:</b>	

## 16. OTHER INFORMATION

All information given in this data sheet is to the best of our knowledge. Because of the nature of the product, the user assumes all risk with respect to it. The data in this safety data sheet refer to the above product, but may not be valid for combination with other products or any other process. This data shall describe our product referring to questions of safety, but not declaration of quality or properties.