

# Material Safety Data Sheet

Issue date: July 2004

Hazardous according to criteria of Worksafe Australia

## Kendocide

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### COMPANY DETAILS:

Kendon Chemical & MNFG. Co. Pty Ltd  
71 McClure Street  
Thornbury, Vic, 3071  
Phone: 03 9497 2822  
Fax: 03 9499 7225

#### PRODUCT DETAILS:

**Product Name:** KENDOCIDE

**Manufacturer's Product Code(s):** A220

**Use:** To remove unwanted algae and moss from synthetic courts, pavements, and lawns.

**UN Number:** 1760

**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S.

**Dangerous Goods Class:** 8

**Packing Group:** II

**Hazchem Code:** 2X

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
DICHLOROPHEN SODIUM SALT	423 g/L	10254-48-5
SODIUM HYDROXIDE	1 to 10%	1310-73-2
WATER	30 to 60%	7732-18-5

### 3. HAZARD IDENTIFICATION

Hazardous according to the criteria of Worksafe Australia

**Hazard Category:** Harmful, Very Corrosive

#### ACUTE HEALTH EFFECTS

##### Swallowed:

Harmful if swallowed.

Will cause severe burns to the mouth, mucous membranes, throat, oesophagus and stomach with effects including: Spontaneous vomiting with diarrhoea and possible bloody stools.

##### Eye:

Will cause severe burns to the eyes with effects including: Pain, tearing, corneal opacity and blindness. If prompt

action is not taken, permanent eye damage will occur.

**Skin:**

Will cause severe burns to the skin, with effects including; Redness, blistering, localised pain, dermatitis and deep burns.

**Inhaled:**

Inhalation overexposure is not expected at ambient temperature and under recommended conditions of use. However if inhaled (e.g as a mist) will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, incoordination, chest pains, coughing, respiratory paralysis and or failure.

**CHRONIC:**

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standard for Atmospheric Contaminants in the Occupational Environment" (may 1995).

Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

## 4. FIRST AID MEASURES

**Swallowed:**

If swallowed, DO NOT induce vomiting. Seek urgent medical assistance Poisons Information Centre 131126.

**Eye:**

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

**Skin:**

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available.

**Inhaled:**

If mists or dusts inhaled remove victim to fresh air. Apply resuscitation if victim is not breathing - DO NOT USE DIRECT MOUTH - TO - MOUTH METHOD if victim ingested or inhaled substance; use alternative respiratory method or proper respiratory device -

**First Aid Facilities:**

Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor:**

Treat symptomatically. Contact Poisons Information Centre 131126

## 5. FIRE-FIGHTING MEASURES

**Fire/Explosion Hazard**

EXTINGUISHING MEDIA: Use media suited to burning material.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If tanks, drums or containers of this material are heated, they may rupture and project corrosive liquids over a wide area.

**Flammability**

Not flammable or combustible. If involved in a fire may generate noxious and corrosive fumes.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL OR LEAK PROCEDURE:

Prevent spillage from entering watercourses. Wear full protective clothing including facemask, face shield and gauntlets. Stop leak if safe to do so, and contain the spill. Absorb onto vermiculite or other absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. After spill wash area preventing runoff from entering drains.

**LARGE SPILLS:** Notify Emergency Services (Police or Fire Brigade). Tell them location, nature and any information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

## 7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Standards

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#### **DICHLOROPHEN SODIUM SALT**

No Exposure details available

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#### **SODIUM HYDROXIDE**

(Worksafe Australia)

[TWA]<sub>2</sub> mg/m<sup>3</sup>

[STEL]Peak limitation

**Notices:** H

(ACGIH)

[STEL]<sub>2</sub> (Ceiling)

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### Engineering Controls

Corrosive liquid. Single significant exposure may cause severe injury. Maintain adequate ventilation at all times. Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.

### Personal Protection Equipment

**CLOTHING:** PVC, Nitrile, Neoprene, Natural rubber or any other type of apron or splash suit. Consult AS2919 for

advice on Industrial Clothing.

**GLOVES:** PVC, Natural rubber or other type of glove must be used, even if product is used infrequently. Failure to use gloves may result in severe irritation or burns.

**EYES:** Chemical goggles or faceshield to protect eyes. Even the brief contact with eyes will result in pain and damage. Consult AS1336 and AS/NZS 1337 or information on eye protection.

**RESPIRATORY PROTECTION:** A face mask or respirator may be used to when the product is being used in dusty or confined areas. Otherwise it is usually safe not to use respiratory protection. However, there may be other circumstances where use of mask or other device is preferred (e.g. possibility of the product being present as a mist). Use judgement. Select and use respirators in accordance with AS/NZS 1715/1716.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark brown liquid. Characteristic odour.
<b>Boiling Point and Vapour Pressure:</b>	About 100 °C, 100kPa
<b>Specific Gravity:</b>	1.2
<b>Flash Point:</b>	Not applicable
<b>Flammability Limits:</b>	Not applicable
<b>Solubility in Water:</b>	Soluble

### Other Properties

<b>Corrosiveness:</b>	Reacts with some metals. Corrosive to some human tissues.
<b>pH:</b>	12-13

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable under normal conditions of use.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide, carbon monoxide, chloride and water. Likely to decompose only after boiling to dryness, followed by further heating. Upon heating the product will generate corrosive and toxic fumes.

### HAZARDOUS POLYMERIZATION:

Will not occur.

### INCOMPATIBILITIES:

Strong acids and oxidizing agents. Can react with Aluminium and Zinc to produce Hydrogen.

## 11. TOXICOLOGICAL INFORMATION

Causes severe chemical burns to the skin. Absorbed into the body by ingestion and through the skin.

**Oral: Rat LD50 Dichlorophen 1506 mg/kg**

### RISK PHRASES

R22 Harmful if swallowed.

R35 Causes severe burns.

### SAFETY PHRASES

S1/2 Keep locked up and out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S37/39 Wear suitable gloves and eye/face protection.

S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label.

## 12. ECOLOGICAL INFORMATION

This substance may cause long term adverse effects in the aquatic environment.

This substance may cause long term adverse effects in the environment

The active of the product is expected to be slowly but ultimately biodegradable.

## 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. TRANSPORT INFORMATION

**UN Number:** 1760

**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S.

**Dangerous Goods Class:** 8

**Subsidiary risk:** No Subsidiary Risk

**Packing Group:** II

**Hazchem Code:** 2X

Classified as a CLASS 8 (CORROSIVE) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, 6th Edition.

Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1
- Class 4.3
- Class 5
- Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7

and are incompatible with food and food packaging in any quantity.

Emergency information(Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)

For TOXIC AND/OR CORROSIVE Guide No: 37

## 15. REGULATORY INFORMATION

**Poison Schedule:** S6

## 16. OTHER INFORMATION

### Contact Point

Technical Department  
03 9497 2822

After Hours  
mobile: 0418-530-461

### Disclaimer

The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of, or reliance on, this information in inappropriate contexts.

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