



Ag-Chem Africa (Pty) Ltd
P.O. BOX 589
SILVERTON, 0127
TEL: (012) 803 0145
FAX: (012) 803 8418
REG. NO: 1998/013411/07

288 Mundt Street
Waltloo
Pretoria
Republic of South Africa

MSDS – Material Safety Data Sheet

Last Revised: June 2002
MSDS Nr: ACAO 3

AGRINE

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification: Clear Coloured Liquid

Use: Disinfectant

UN No: Not regulated

Supplier: Ag-Chem Africa
288 Mundt Street
Waltloo

Emergency number: 012 - 803 0145

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Chlorine Dioxide 5%

3. HAZARDS IDENTIFICATION

Emergency Overview

- Causes eye burns and irritation
- Harmful if swallowed or inhaled
- Causes irritation to skin and respiratory tract

3. HAZARDS IDENTIFICATION (CONT.)

Potential Health Effects

Inhalation:

Causes irritation to the mucous membranes of the respiratory tract. May be absorbed from the mucous membranes and depending on the amount of exposure could result in the development of nausea, vomiting, diarrhoea and gastric distress. May be slightly toxic by inhalation.

Ingestion:

May result in mild gastric discomfort and nausea.

Skin Contact:

Causes skin irritation. Not significantly absorbed through the intact skin. Readily absorbed through damaged or burned skin. Excessive exposure, especially if prolonged, may produce skin irritant.

Eye Contact:

Causes irritation, redness and pain.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

Ingestion:

Have victim rinse mouth thoroughly with water. Give $\frac{1}{2}$ to one glass of water to dilute the material if victim is alert and not convulsing. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice immediately.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

Eye Contact:

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Fire:

Not considered to be a fire hazard.

Fire Extinguishing Media:

Extinguish with water unless contraindicated by other material involved in the fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fire may produce irritating or poisonous vapours, mists or other products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Small Spills:

Use non-combustible material like vermiculite, sand or earth to soak up the substance and put in a suitable container for reclamation or disposal.

Large Spills:

Dyke far ahead of liquid spills for later disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Handling:

Keep out of reach of children, untrained persons and animals. Observe all warnings and precautions listed for the product.

Storage:

Keep in tightly closed container in a shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Protect against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation system:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Skin Protection:

Wear suitable personal protective equipment (i.e. overalls and rubber boots) including approved gloves.

Eye Protection:

Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Coloured Liquid
Odour: Pungent Odour
Solubility: Soluble in water
SG: 1.07
pH: 8.0 – 9.0
Boiling Point: > 100 °C

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.
Hazardous Polymerisation: Will not occur.
Conditions to avoid: Heat, incompatibles, open flames and ignition sources.
Incompatibilities: Acids, reducing agents, combustible materials.
Thermal Decomposition: Hydrogen Chloride Gas

11. TOXICOLOGICAL INFORMATION

Oral LD₅₀ = 4,360 mg/kg (rat) (as 100% active ingredient)

12. ECOLOGICAL INFORMATION

Environmental Fate: No information found
Environmental Toxicity: No information found

This section is subject to further development.

13. DISPOSAL CONSIDERATIONS

Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Dispose of container and unused contents in accordance with local requirements.

14. TRANSPORT INFORMATION

Non – Dangerous

15. REGULATORY INFORMATION

EC Classification: Irritant
Risk – Phrase: R36
S – Phrase: S (1/2),23,26,28,36/37/39,45,61.

National legislation: National Road Traffic Act, 1996 (Act 93 of 1996).
Fire Brigade Service Act, 1987 (Act 99 of 1987).
Occupational Health and Safety Act, 1993 (Act 85 of 1993).

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. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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