


1. Identification of the substance/mixture and of the company/undertaking	
1.1 Product identifiers	
Product Name	Microcide
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Product Description	Chlorine detergent disinfectant
1.3 Details of the supplier of the safety data sheet	
Company	Hychem (Pty) Ltd 562 15th Road Randjesfontein Midrand PO Box 5742; Rivonia; 2128
Telephone Number	011 466 1885
Email Address	SalesJhb@Hychem.co.za
1.4 Emergency telephone	
Emergency Number	011 466 1885
2. Hazards identification	
2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008	
	Acute Tox. 4: H302 Eye Irrit. 2: H319 STOT SE 3: H335 Aquatic Acute 1: H400 Aquatic Chronic 1: H410
2.2 Label elements	
Labelling according to Regulation (EC) No 1272/2008	
Pictogram(s)	
Signal Word	Warning
Hazard Statement(s)	H302: Harmful if swallowed. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P312: Call a POISON CENTER/doctor if you feel unwell. P330: Rinse mouth. P391: Collect spillage. P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P337+P313: If eye irritation persists: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405: Store locked up. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container to an approved waste disposal plant.
2.3 Other hazards	
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
3. Composition/information on ingredients	
3.1 Mixture	
Component CAS Number Weight	Sodium dichloroisocyanurate 51580-86-0 35.2% Anionic surfactant N/A 1-5%

4. First aid measures	
4.1 Description of first-aid measures	
General advice	Show this material safety data sheet to the doctor in attendance.
Inhalation	After inhalation: fresh air. Call in physician.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.
Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Ingestion	After swallowing: caution if victim vomits. Keep airways free. Call a physician immediately.
4.2 Most important symptoms and effects, acute and delayed	
	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed	
	No data available
5. Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media	Non-flammable
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
5.2 Special hazards arising from the substance or mixture	
	None
5.3 Advice for firefighters	
	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
5.4 Further information	
	Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.
6. Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures	
	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
6.2 Environmental precautions	
	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
6.3 Methods and materials for containment and cleaning up	
	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
6.4 Reference to other sections	
	For disposal see section 13.
7. Handling and storage	
7.1 Precautions for safe handling	
Advice on safe handling	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities	
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage Class	No data available

8. Exposure controls/personal protection	
8.1 Control parameters	
Ingredients with workplace control parameters	
Component Permissible Limit Basis	Not applicable
	Legend: ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH - National Institute for Occupational Safety and Health
8.2 Exposure controls	
Personal Protective Equipment	<p>Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.</p> <p>Skin protection Required</p> <p>Body Protection None</p> <p>Respiratory protection Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.</p> <p>Control of environmental exposure None</p>
9. Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
Physical State	Powder
Colour	White
Odour	Chlorine
Melting point/ freezing point	No data available
Boiling point/ boiling range (°C)	No data available
Flammability	Non-flammable
Lower and upper explosion limit/ flammability limit	No data available
Flash point (°C)	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity	No data available
Solubility	Soluble in water
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
10. Stability and reactivity	
10.1 Reactivity	
	No decomposition if stored and applied as directed.
10.2 Chemical stability	
	Stable under recommended storage conditions. The product is chemically stable under standard ambient conditions (room temperature) .
10.3 Possibility of hazardous reactions	
	No data available
10.4 Conditions to avoid	
	No data available
10.5 Incompatible materials	
	No data available
10.6 Hazardous decomposition products	
	In the event of fire: see section 5

11. Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause respiratory irritation.
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
12. Ecological information	
12.1 Toxicity	
	Very toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability	
	No data available
12.3 Bioaccumulative potential	
	No data available
12.4 Mobility in soil	
	Expected to be mobile due to water solubility
12.5 Other adverse effects	
	No data available
13. Disposal considerations	
13.1 Waste treatment methods	
	No data available
14. Transport information	
14.1 UN number	
	UN 3077
14.2 UN proper shipping name	
	Environmentally Hazardous Substance N.O.S
14.3 Transport hazard class(es)	
ADR/RID	9
IMDG	9
IATA	9
14.4 Packaging group	
ADR/RID	III
IMDG	III
IATA	III
14.5 Environmental hazards	
ADR/RID	No data available
IMDG Marine pollutant	No data available
IATA	No data available
14.6 Special precautions for user	
	None
15. Regulatory information	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
This material safety data sheet complies with the requirements of Regulation (EC) No 1272/2008	
16. Other information	
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