

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MICROKLEEN

<b>1. <u>Product and Company identification</u></b>	
Product Name	MICROKLEEN ENHANCED
Product Description	Multi Purpose Cleaner/ Disinfectant
Manufacturer/ Supplier	Hychem (Pty) Ltd
Physical address	11/13 Silverstone Crescent Kyalami Business Park Midrand
Postal Address	PO Box 5742; Rivonia; 2128
Contact Details	Emergency: 011-466 1885/0860 102 555

<b>2. <u>Composition/ Information on ingredients</u></b>	
Chemical Nature	Mildly alkaline dark green liquid
Components contributing to the hazard	Didecyl Dimethyl Ammonium Chloride
Chemical or generic name of components	QAC 80% twin chain
Concentration range	Low
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Classification and hazard labelling	XI Irritant
Major hazard	Low Irritant
UN/ CAS	CAS 7173-51-5/ UN2920
R-Phrases	R36, R38

<b>3. <u>Hazard identification (Summary of most important hazards)</u></b>	
Hazard category	XI Irritant (low)
Adverse human health affects	Slightly irritating to skin
Environmental effects	None known
Physical hazard	Handle open container with care. Avoid contact with eyes and skin
Classification of the chemical product	At concentrations recommended for washing purposes, no significant effects occur

<b>4. <u>First Aid Measures</u></b>	
Action to be avoided	Do not induce vomiting
Inhalation	Remove patient from exposure
Skin contact	Wash with large quantities of water
Eye contact	Keep eyes open and flush with clean water
Ingestion	Wash out mouth with clean water and give 200-300ml of water to drink. Do not induce vomiting.
Note to physician	Treat symptomatically as for general purpose detergent

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<b>5. <u>Fire fighting measures</u></b>	
Extinguishing media	Non flammable
Inappropriate distinguishing media	Not applicable
Specific hazards	None
Special equipment for protection	Not applicable

<b>6. <u>Accidental release measures</u></b>	
Personal precautions	Avoid eye contact. Do not ingest
Environmental precautions	None
Methods for cleaning up recovery	Flush with water
Neutralisation and disposal of spillage	None required

<b>7. <u>Handling and storage</u></b>	
Observe the usual precautionary measures for handling and storing chemicals	
Handling	Do not ingest Avoid contact with the eyes – wear goggles in abnormal conditions Ensure container is properly closed and not leaking
Storage	Keep container tightly closed in a dry secure area. Store away from acids and food stuff. Check containers regularly for leakage and possible distension. Material must be stored in accordance with local rules and legislation

<b>8. <u>Exposure controls/ Personal protection</u></b>	
<u>Control Parameters</u>	
Limit values	To be monitored at the work place
Biological standards	Refer to UN and R-Phrase numbers
Monitoring procedures	Keep container closed when not in use
Personal protective equipment	Refer to the S-Phrase data
Protective clothing	The use of an approved respirator and goggles is advised in abnormal conditions
Personal hygiene measures	Wash contaminated clothing before storage and re-use

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<b>9. <u>Physical and chemical properties</u></b>	
Form	Liquid
Colour	Dark green
Odour	Lavender
PH Value	11-12 (as received)
Boiling point	Not applicable
Flash point	Not applicable
Explosion properties	Not applicable
Vapour pressure	Not ascertained
Vapour density	Not ascertained
Density	Not applicable
Solubility	Soluble in water
Viscosity at 20°C	5 mPa.s
Specific gravity at 20°C	1.070 (+/- 0.02)

<b>10. <u>Stability and reactivity</u></b>	
Stability and possible hazardous reactions	Product is stable No hazardous reactions
Conditions/ materials to avoid	Avoid food stuff
Hazardous decomposition	No decomposition if stored and used in accordance with provisions for use

<b>11. <u>Toxicological information</u></b>	
LD 50 test on animals available on certain raw materials in product	
Acute Toxicity	None known
Local effects	None known
Sensitisation	Can cause irritation of the eyes
Chronic toxicity	None known
Long term toxicity	None known

<b>12. <u>Ecological information</u></b>	
Possible environmental effects	No adverse effects
Behaviour and fate	Soluble in water, avoid large product spillage from entering waterways
Persistence/ Biodegradability	Biodegradable in water

<b>13. <u>Disposal considerations</u></b>	
Disposal of chemical product	According to the local rules and legislation
Disposal of contaminated packaging	Recommended cleaning agent - water

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<b>14. <u>Transport regulations</u></b>	
Packaging group	II
Transport	As regulations pertaining to UN2920

<b>15. <u>Regulatory information</u></b>	
National legislation	Refer to the below Risk and Safety phrase Data
Hazard and safety information	Take usual good care
EEC hazard classification Risk phrases	R36 – Irritating to the eyes R37 – Irritating to the respiratory system
EEC hazard classification Safety phrases	S7 – Keep container tightly closed S13 – Keep away from food, drink and animal feed S18 – Handle and open container with care S25 – Avoid contact with the eyes S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S27 – Take off contaminated clothing

<b>16. <u>Additional information (e.g. special training or restrictions on the products use)</u></b>
Refer to product data sheet
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.