

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: MICROSAN

<b>1. Product and Company identification</b>	
Product Name	MICROSAN
Product Description	Toilet bowl cleaner
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: 011-4661885

<b>2. Composition/ Information on ingredients</b>	
Chemical Nature	Dark red acidic liquid
Components contributing to the hazard	Citric Acid
Chemical or generic name of components	Citric acid
Concentration range	High
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Classification and hazard labelling	None Applicable
Major hazard	Xi Irritant
UN/ CAS	N/A
R-Phrases	R21, R22, R34, R41

<b>3. Hazard identification (Summary of most important hazards)</b>	
Hazard category	Xi Irritant
Adverse human health affects	Severe irritant to eyes, skin and if ingested
Environmental effects	May be corrosive to animal and vegetable tissue
Classification of the chemical product	Not explosive or flammable

<b>4. First Aid Measures</b>	
<b>Note to first aider: Wear PVC gloves and eye protection when handling contaminated clothing</b>	
Action to be avoided	Do not induce vomiting
Inhalation	May cause irritation/ damage to respiratory tract
Skin contact	Remove contaminated clothing. Wash skin well with large volumes of water, rinse with a dilute solution of Sodium Bicarbonate. Obtain medical assistance urgently
Eye contact	Act quickly, Keep eyes open and flush with clean water for 30 minutes. Obtain medical assistance.
Ingestion	Give +300ml of clean water to drink, this will dilute the chemical in the stomach. Obtain medical assistance urgently
Note to physician	Treat symptomatically as for Phosphoric acid

MATERIAL SAFETY DATA SHEET  
PRODUCT NAME: MICROSAN

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

<b>6. Accidental release measures</b>	
Personal precautions	Wear protective clothing and equipment to prevent skin, eye contact. Do not ingest
Environmental precautions	Do not allow product to enter soil, ground and waterways. Toxic to aquatic life
Methods for cleaning up recovery	Mechanically or liquid binding material i.e. sand
Neutralisation and disposal of spillage	Apply a strong solution of Sodium Bicarbonate and remove to waste disposal area

<b>7. Handling and storage</b>	
Observe the usual precautionary measures for handling and storing chemicals	
Handling	Do not ingest, avoid eye and skin contact. Wear PVC gloves and protective eyewear. Ensure container is properly closed and not leaking
Storage	Keep container tightly closed in a dry secure area, out of reach of children. Store away from alkalis and food stuff. Check containers regularly for leakage and possible distension. Material must be stored in accordance with local rules and legislation

<b>8. Exposure controls/ Personal protection</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	PVC gloves, protective eyewear, face mask
Personal hygiene measures	Wash contaminated clothing before storage and re-use

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<b>9. Physical and chemical properties</b>	
Form	Liquid
Colour	Clear dark red
Odour	Mild acidic
PH Value	1 (as received)
Boiling point / boiling range °C	101°C
Flash point	Non flammable
Vapour pressure	Not ascertained
Vapour density	Not ascertained
Density	Not ascertained
Solubility	Soluble in water
Viscosity at 20°C	5.5mPa.s.
Specific gravity at 20°C	1.110 (+/- 0.02)

<b>10. Stability and reactivity</b>	
Stability and possible hazardous reactions	Product is stable
Conditions/ materials to avoid	Reacts violently with alkalis. (Do not store with or mix with alkalis)
Hazardous decomposition	No decomposition if stored and used in accordance with provisions for use

<b>11. Toxicological information</b>	
LD 50test on animals available on certain raw materials in product	
Acute Toxicity	May be corrosive upon prolonged exposure to tissues
Local effects	May cause ulceration and scarring.
Sensitisation	Causes eye and skin irritation
Chronic toxicity	No data available
Long term toxicity	No data available

<b>12. Ecological information</b>	
Possible environmental effects	Toxic to aquatic life
Behaviour and fate	Soluble in water. Avoid large product spillage from entering waterways.
Persistence/ Biodegradability	No data available

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

<b>14. Transport regulations</b>	
Packaging group	N/A

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PRODUCT NAME: MICROSAN

Classification	Not classified as hazardous for transport
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<b>15. Regulatory information</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	R21 – Harmful in contact with skin
	R22 – Harmful if swallowed
	R34 – Causes burns
	R41 – Risk of serious damage to eyes
EEC hazard classification Safety phrases	S7 – Keep container tightly closed
	S13 – Keep away from food, drink and animal feeding stuffs
	S18 – Open and handle container with care
	S24 – Avoid contact with skin
	S25 – Avoid contact with eyes
	S26 – In case of contact with eyes, rinse immediately with plenty of water. Seek medical advice
	S27 – Remove contaminated clothing
	S28 – After contact with skin, wash immediately with plenty of water, rinse with Sodium Bicarbonate
	S36 – Wear suitable protective clothing

<b>16. Additional information (e.g. special training or restrictions on the products use)</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.