

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BIOSOFT

<b>1. Product and Company identification</b>	
Product Name	BIOSOFT
Product Description	Laundry fabric softener
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	Viscose Opaque Liquid
Components contributing to the hazard	Ditallowylethyl Hydroxyethylmonium Methosulfate
Chemical or generic name of components	Ester Quat, Cationic Surfactant
Concentration range	Low
VHIGH >60%, HIGH 30-60%, MED 10-29%, LOW 1-9%, VLOW >1%	
Classification and hazard labelling	Not applicable
Major hazard	None
UN/ CAS	91995-81-2
R-Phrases	R36, R38

<b>3. Hazard identification (Summary of most important hazards)</b>	
Hazard category	Not applicable
Adverse human health affects	Slightly irritating to the eyes. No sensitisation noted in skin contact, but would not be excluded. Nausea may occur if ingested
Environmental effects	None known
Classification of the chemical product	At concentrations recommended for cleaning purposes, no significant effects occur

<b>4. First Aid Measures</b>	
Action to be avoided	Do not induce vomiting
Inhalation	Not applicable
Skin contact	Wash with large quantities of water
Eye contact	Keep eyes open and flush with clean water for at least 15 minutes. Obtain medical attention.
Ingestion	Wash out mouth with water and give 200-300ml of water to drink. Do not induce vomiting.
Note to physician	Treat symptomatically as for amine

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

<b>6. Accidental release measures</b>	
Personal precautions	Avoid eye contact and do not ingest
Environmental precautions	Do not allow large volumes to enter waterways
Methods for cleaning up recovery	Mechanically or liquid binding material i.e. sand
Neutralisation and disposal of spillage	No neutralisation required. Remove to waste disposal area

<b>7. Handling and storage</b>	
Observe the usual precautionary measures for handling and storing chemicals	
Handling	Avoid eye contact and do not ingest Ensure container is properly closed and not leaking
Storage	Keep container tightly closed in a dry secure area. Store away from food stuff Store out of reach of children 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	In abnormal conditions wear PVC gloves, protective eye gear and a PVC apron
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	White or Blue
Odour	Perfumed
PH Value	5 (as received)
Boiling point/ boiling range °C	101°C
Flash point	Non flammable
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	Not applicable
Solubility	Soluble in water
Viscosity at 20°C	300Pa.s. (Ford cup #4)
Specific gravity at 20°C	1 (+/- 0.02)

<b>10. Stability and reactivity</b>	
Stability and possible hazardous reactions	Product is stable
Conditions/ materials to avoid	None
Hazardous decomposition	No decomposition if used and stored in accordance with provisions for use

<b>11. Toxicological information</b>	
LD 50test on animals available on certain raw materials in product	
Acute Toxicity	None known
Local effects	Symptoms may arise if product is mishandled
Sensitisation	High concentrations of mist may be slightly irritating
Chronic toxicity	Non toxic
Long term toxicity	Non toxic

<b>12. Ecological information</b>	
Possible environmental effects	Product is Biodegradable
Behaviour and fate	Soluble in water. Avoid large product spillage from entering waterways
Persistence/ Biodegradability	Biodegradable in water

<b>13. Disposal considerations</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. Transport regulations</b>	
Packaging group	Not classified to any mode of transport
Classification	Non hazardous, non flammable

<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	R36 – Irritating to the eyes
	R38 – Could be irritating to the skin
EEC hazard classification Safety phrases	S7 – Keep container tightly closed
	S13 – Keep away from food, drink and animal feeding stuff
	S18 – Open and handle container with care
	S24 – Avoid prolonged 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

<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.	