



**MATERIAL SAFETY DATA SHEET (MSDS)**

**PRODUCT: BLEACH**

**COMPANY DETAILS**

<b>Name</b>	EconoMart (Pty) Ltd	<b>Tel:</b>	011 849 3587
<b>Website</b>	<a href="http://www.economart.co.za">www.economart.co.za</a>	<b>Fax:</b>	086 698 0685
<b>Postal Address</b>	124 Simon Street, Benoni	<b>e-mail</b>	<a href="mailto:info@economart.co.za">info@economart.co.za</a>

**1. Product Identification**

<b>Trade Name</b>	Bleach	<b>CAS No</b>	DNA
<b>Chemical Family</b>	Oxidizers	<b>DOT ID</b>	DNA
<b>Chemical Name</b>	Formulated Chemical	<b>Hazchem code:</b>	DNA
<b>Product Use</b>	Stain removal	<b>UN No.</b>	DNA

**2. Composition**

CAS No	Hazardous Components	%	DOT ID
7681-52-9	SODIUM HYPOCHLORITE	25 - 35	1791

**3. Hazards Identification**

<b>Fire</b>	May cause fire on dry contact with combustibles.
<b>Inhalation</b>	Irritating to eyes nose and throat.
<b>Skin contact</b>	Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Ingestion</b>	Harmful if swallowed.

**4. First Aid Measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Skin contact</b>	Flush with copious amounts of water.
<b>Eye contact</b>	Rinse for 5 minutes holding open eyes.
<b>Ingestion</b>	Give person milk to drink. Induce vomiting- seek medical assistance.

**NEVER INDUCE VOMITING IF A PERSON IS HAVING CONVULSIONS OR IS UNCONSCIOUS**

**5. Fire Fighting Measures**

Wear goggles and self-contained breathing apparatus.

**6. Accidental Release Measures**

<b>Small spills</b>	Dilute and flush to drain.
<b>Large spills</b>	Disperse and flush.
<b>General</b>	N/A


**7. Handling & Storage**

<b>Storage</b>	Cool dry area away from combustible materials.
<b>Handling</b>	Normal handling procedures.

**8. Exposure Controls/Personal Protection**

Use gloves when handling concentrate.

All information is given in good faith but without guarantee in respect of accuracy & no responsibility is accepted for errors or omissions or the consequences thereof.

<b>9. Physical and Chemical Properties</b>						
<b>Appearance</b>	Yellow, clear liquid					
<b>pH</b>	>10.0					
<b>Density</b>	1.05					
<b>Solubility (water)</b>	100%					
<b>10. Stability &amp; Reactivity</b>						
<b>Stability</b>	Stable under normal use and storage conditions.					
<b>Incompatibility</b>	Acids, combustible material.					
<b>Hazardous decomp. products</b>	Chlorine gas in fire or on contact with acids.					
<b>11. Toxicological Information</b>						
<b>Toxicity</b>	LD50 = 1 670 mg/kg (Rat)					
<b>Skin &amp; Eye contact</b>	Irritating					
<b>Carcinogenity</b>	DNA					
<b>Mutagenicity</b>	DNA					
<b>Reproductive hazard</b>	DNA					
<b>12. Ecological Information</b>						
<b>Aquatic Toxicity</b>	DNA					
<b>Rainbow trout</b>	DNA					
<b>daphnia</b>	DNA					
<b>algae</b>	kills algae					
<b>BOD demand</b>	BOD none					
<b>13. Disposal Methods</b>						
Disperse in water and and flush.						
<b>14. Transport Information</b>						
<b>Storage temp</b>	Cool, ambient					
<b>Inert Atm</b>	Not required					
<b>Venting</b>	Pressure vacuum					
<b>15. Regulatory Information</b>						
<b>NFPA hazard classification</b>	<u>Health</u>	<u>3</u>	<u>Flammability</u>	<u>0</u>	<u>Reactivity</u>	<u>2</u>
<b>Risk Identification</b>	Oxidiser					
<b>Safety</b>						
<b>Contains</b>	Chlorine					
<b>National legislation</b>	DNA					
<b>16. Other Information</b>						
<b>Issued by</b>	M van der Merwe					
<b>Signature</b>						
<b>Issued: 26-07-2001</b>						
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