



MATERIAL SAFETY DATA SHEET

PRODUCT:	BLEACH (5) - H
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1. Product and Company Identification

PRODUCT NAME:	BLEACH (5) - H	
SYNONYM:	Household Bleach	
CHEMICAL NAME:	Sodium Hypochloride	
CAS NO:		
UN NO:		
REF NO:		
SUPPLIER/MANUFACTURER:	Name:	Pineland Environmental Technology (Pty) Ltd
	Address:	Unit B41 Pinelands Business Park New Mill Road Pinelands Cape Town
	Tel No:	+27 (0)21-531-3749
	Telefax:	+27 (0)21-531-3903
EMERGENCY TELEPHONE NO:	083 464 1074 (Chris Davidson)	

2. Composition/Information on Ingredients

CHEMICAL NATURE:	Contains Sodium Hypochlorite Solution, 5% Active Chlorine.
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3. Hazards Identification

ADVERSE HUMAN HEALTH EFFECTS:	Corrosive contact causes burns to skin and eyes. If inhaled could be harmful.
PHYSICAL AND CHEMICAL HAZARDS:	If reacted with strong acids it would release chlorine.
- Fire or explosion:	In fire it would release chlorine.
CLASSIFICATION/SPECIFIC HAZARDS:	

ALL PINELAND ENVIRONMENTAL TECHNOLOGY HACCP PRODUCTS CARRY
THE APPROPRIATE SABS MARK

Tel: + 27 (0)21 531 3749 Fax: + 27 (0)21 531 3903

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4. First Aid Measures (To be done by first aider)

INHALATION:	Remove from contaminated area. Give oxygen/CPR as indicated.
SKIN CONTACT:	Wash with excess water.
EYE CONTACT:	Wash with excess water. Hold eyelid open while washing.
INGESTION:	Do not induce vomiting.

5. Notes to Physician (NB: This treatment is only to be given by a medical doctor or under his supervision)

INGESTION:	Treat for chlorine poisoning.
CARCINOGENITY:	N/A

6. Fire Fighting Measures

EXTINGUISHING MEDIA:	
- Suitable:	Dry chemical, CO2 or Halogen.
- Not to be used:	None known
SPECIFIC HAZARDS:	If bleach becomes heated it will release chlorine gas – always wash up wind.

7. Accidental Release Measures

PERSONAL PRECAUTIONS:	Bleach is a diluted product and therefore not so hazardous.
ENVIRONMENTAL PRECAUTIONS:	Chlorine dissipates if exposed to sunlight. If diluted it would not effect the environment.
METHODS FOR CLEANING UP:	Small spills wash away. Large spills contain with sand.

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8. Handling and Storage

HANDLING:	Handle in normal way.
Technical Measures:	
STORAGE:	Cool, dry area.
Technical measures:	
Recommended storage conditions:	
Incompatible products:	Acids of all types.
Packaging:	Plastic, dark bottles.
Packaging materials:	
- Recommended:	
- Not suitable:	Steel / see through containers

9. Exposure Controls/Personal Protection

Engineering Measures:	
PERSONAL PROTECTIVE EQUIPMENT:	
- Hand Protection:	Only with long use gloves required.
- Eye Protection:	Wear goggles
- Skin and body Protection:	Avoid prolonged contact

10. Physical and Chemical Properties

APPEARANCE:	Thin Clear Liquid
- Physical state:	Liquid
- Colour:	Colourless
ODOUR:	Typical
- pH:	Alkaline
SPECIFIC TEMPERATURES:	
- Melting:	N/A
- Boiling:	N/A
FLAMMABILITY CHARACTERISTICS:	
- Flash point:	None.
- Ignition temperature:	
- Explosion limits:	
OXIDIZING PROPERTIES:	Releases Chlorine
DENSITY:	1.03
BULK DENSITY:	1.03g/1
VAPOUR PRESSURE:	High if heated.
SOLUBILITY:	
- In water:	Total.
- In organic solvents:	Not advisable.

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11. Stability and Reactivity

STABILITY:	Stable under normal conditions.
HAZARDOUS REACTIONS:	
- Materials to avoid:	Acids of all types
- Conditions to avoid:	Heat or direct sunlight
- Hazardous decomposition products:	Chlorine Gas

12. Toxicological Information

ACUTE TOXICITY:	
LOCAL EFFECTS:	

13. Ecological Information

BEHAVIOUR IN THE ENVIRONMENT:	No ecological
PERSISTENCE/DEGRADABILITY:	Will degrade
EXPECTED BEHAVIOUR OF THE PRODUCT:	
POSSIBLE IMPACT/EFFECTS:	
ECOTOXICITY:	Very low.

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14. Disposal Considerations

STABILITY:	
WASTE FROM RESIDUES:	
- Disposal:	Dilute with excess water.
CONTAMINATED PACKAGING:	
Decontamination/cleaning:	
Disposal:	

15. Transport Information

LAND:	No special regulation
RAIL/ROAD (RID/ADR):	
SEA (IMO/IMDG):	
AIR (ICAO-IATA):	Not recommended.

16. Regulatory Information

EEC REGULATIONS:	
HAZARD SYMBOL:	
R PHRASES:	
S PHRASES:	

17. Other Information

USES:	
OTHER:	

The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

The classification was effectuated according to information derived from technical literature and supplier companies.

Information included in this document is based on our present state of knowledge, however, they do not assure the product properties and do not assume any legal condition.

The material safety data sheet completes the product information without replacing it.

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