



Company Details:

Waterwell Projects (PTY) LTD

Reg No. 2001/018862/07

Waterwell Projects (PTY) LTD

Unit 4/5 Megazone Park

Hertford Junction R512

Lanseria 1748

Tel: 011 300 9917/8 or 073 077 0973

Fax: 086 605 9360

Poison Centre: +27 21 689 5227

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

a) Identification of the substance or preparation :

- 1.1 Trade / Commercial Name:** Waterwell Filter Cleanse (packed 1L or 20L)
1.2 Chemical Name: Preparation of Sodium hydroxide
1.3 Chemical family : Sodium compounds
1.4 Synonyms: BUSPERSE® 2172
1.5 Un No. 3266
1.6 CAS No. 1310-73-2
1.7 Hazchem code:

b) Information of Distributor :

Waterwell Projects (PTY) LTD
Unit 4 Megazone Park
Hertford Junction R512
Lanseria 1748
Tel: 011 300 9917/8 or 073 077 0973
Fax: 086 605 9360

Alternate suppliers:

BUCKMAN LABORATORIES (PTY) LTD
PO Box 591,
Hammarisdale, 3700
1 Buckman Boulevard
Hammarisdale
KwaZulu Natal
Tel: 031 736 8800
Fax: 031 736 1593
Emergency telephone number: 0800 736 8800

2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Not classified

3. COMPOSITION

Component	CAS No	% w/w	classification
Sodium hydroxide	1310-73-2	7 - 25%	not classified
Water	7732-18-5	min 75 %	none established

4. FIRST AID MEASURES

Product in the eye:	Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
Product on the skin:	Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Product ingested:	Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Inhalation:	Move the exposed person to fresh air.
Note to physician:	For specialist medical advice in the event of an emergency contact 0800 7368800

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Use an extinguishing agent suitable for the surrounding fire.
Special Hazards:	In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous combustion products:	Decomposition products may include the following materials: Carbon dioxide Carbon monoxide Phosphorus oxides Metal oxide/oxides
Protective Clothing:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

- Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous.
- Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational Exposure Limits: Sodium hydroxide
ACGIH TLV (United States, 1/2007). C: 2 mg/m³
- Occupational exposure controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other

engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection:	Where exposures are below the established exposure limit, no respiratory protection is required. When established limits are exceeded, or misting may occur in the work area, a NIOSH approved respirator may be required. Use a respirator approved for the material and level of exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand protection:	Use Chemical Resistant Gloves.
Eye protection:	Chemical splash-proof goggles must be worn when handling a chemical product.
Skin protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear brown
Odour:	
Ph:	>12
Boiling Point::	>100°C
Flash Point:	Closed cup: >100°C
Density :	1.14 to 1.16 g/cm
Solubility in Water:	Soluble in cold and hot water

10. STABILITY AND REACTIVITY

Stability:	The product is stable.
Hazardous Decomposition Products:	Under normal conditions of storage hazardous reactions will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity	
Inhalation	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Ingestion	May cause burns to mouth, throat and stomach.
Skin contact	severely corrosive to the skin. Causes burns.
Eye contact	severely corrosive to the eyes. Causes severe burns.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Preparation	LD50 Oral	Rabbit	142 mg/kg	-

Potential chronic health effect No known significant effects or critical hazards.

Over-exposure signs/symptoms

Ingestion Adverse symptoms may include the following:
Stomach pains

Skin Adverse symptoms may include the following:
Pain or irritation, redness, blistering may occur

Eyes Adverse symptoms may include the following:
Pain, watering, redness

12. ECOLOGICAL INFORMATION

Environmental effects: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Sodium hydroxide	-	Acute EC50 40.38 to 47.13 mg/L Fresh water flea	Daphnia - Water	48 hours
	-	Acute LC50 125000 ug/L Fish - Fresh water	- Ceriodaphnia dubia Western mosquitofish - Gambusia affinis	96 hours
	-	Acute LC50 33000 to 100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp -Crangon crangon	48 hours -

13. DISPOSAL CONDITIONS




Disposal Method The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the

requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
SANS 10228	UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	III		<u>Hazard identification number</u> 80 <u>Limited quantity</u> LQ19 <u>Special provisions</u> 274
IMDG	UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	III		<u>Emergency schedules (EmS)</u> F-A, S-B
IATA	UN3266	Corrosive liquid, basic, inorganic, n.o.s.	8	III		<u>Passenger and Cargo Aircraft</u> Quantity limitation: 5 L Packaging instructions: 818 <u>Cargo Aircraft Only</u> Quantity limitation: 60 L Packaging instructions: 820 <u>Limited Quantities - Passenger Aircraft</u> Quantity limitation: 1 L Packaging instructions: Y818

PG* : Packing group

15. REGULATORY INFORMATION

Risk phrases :
International regulations
Chemical Weapons

This product is not classified according to EU legislation.

Convention List Schedule I: Chemicals Chemical Weapons	Not listed
Convention List Schedule II: Chemicals Chemical Weapons	Not listed
Convention List Schedule III: Chemicals	Not listed

16. OTHER INFORMATION

The information herein is given in good faith and to the best of our knowledge at the current date. The accomplishment of the instructions herein does not exempt the user from following the legal and administrative regulations relative to product, environmental safety and hygiene, which are user's own responsibility. In case of mixture with other substances, ensure that other risks are not generated.

Date of Revision: **28 October 2014 (general revision)**