

## MATERIAL SAFETY DATA SHEET

### 1. Product and company identification

**Identification of the substance or preparation**

Product name : SIZONKE WBD  
 Chemical name : Preparation  
 Chemical family : Alcohols and derivatives  
 UN number : UN1760  
 Company Address :



Emergency telephone number : TEL: 013 755 3188 WEB: www.sizonkegroup.co.za

### 2. Composition/information on ingredients

Substance/preparation : Preparation

| Ingredient name   | CAS number | %       | EC number | Classification              |
|---|------------|---------|-----------|-----------------------------|
| dodecylbenzenesulfonic acid   | 27176-87-0 | 7 - 25  | 248-289-4 | Xn; R22                     |
| 2-butoxyethanol   | 111-76-2   | 3 - 7   | 203-905-0 | Xn; R20/21/22<br>Xi; R36/38 |
| sodium hydroxide  | 1310-73-2  | 0.1 - 1 | 215-185-5 | C; R35                      |
| <b>See section 16 for the full text of the R-phrases declared above</b> |            |         |           |                             |

All ingredients classified as hazardous to health or the environment, within the current knowledge of the supplier and in the concentrations applicable, have been reported above, in compliance with the Occupational Health and Safety Act 85 of 1993.

Please refer to Section 3 for the classification of the final product, as supplied.

### 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/38  
 Human health hazards : Irritating to eyes and skin.

### 4. First aid measures

Inhalation : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. 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.

## 4. First aid measures

- Ingestion** : 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. Get medical attention if adverse health effects persist or are severe. 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.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : 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. Get medical attention.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : For specialist medical advice in the event of an emergency contact 0800 7368800.

## 5. Fire-fighting measures

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Special exposure 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 oxides  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 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. Approach release from upwind. 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 or 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 breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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

### Exposure limit values

| <u>Ingredient name</u> | <u>Occupational exposure limits</u>   |
|------------------------|---|
| 2-butoxyethanol        | <b>EU OEL (Europe, 5/2006). Skin Notes: Indicative</b><br>short term: 246 mg/m <sup>3</sup> 15 minute(s).<br>short term: 50 ppm 15 minute(s).<br>8 hours: 98 mg/m <sup>3</sup> 8 hour(s).<br>8 hours: 20 ppm 8 hour(s). |
| sodium hydroxide       | <b>ACGIH TLV (United States, 1/2007).</b><br>C: 2 mg/m <sup>3</sup>   |

### Exposure controls

- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure 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.
- Hand protection** : Use chemical-resistant, impervious gloves.
- Eye protection** : Chemical splash-proof goggles must be worn when handling any 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.
- Color** : Clear. Yellow.
- pH** : 11.5 to 12.5
- Density** : 1.02 to 1.04 g/cm<sup>3</sup>
- Solubility** : Soluble in the following materials: cold water and hot water.

## 10. Stability and reactivity

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### Potential acute health effects

- Ingestion** : Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin.
- Eye contact** : Irritating to eyes.

### Acute toxicity

| Product/ingredient name     | Result               | Species | Dose       | Exposure |
|-----------------------------|----------------------|---------|------------|----------|
| dodecylbenzenesulfonic acid | LD50 Oral            | Rat     | 650 mg/kg  | -        |
| 2-butoxyethanol             | LD50 Dermal          | Rabbit  | 220 mg/kg  | -        |
|                             | LD50 Intraperitoneal | Rat     | 220 mg/kg  | -        |
|                             | LD50 Intravenous     | Rat     | 307 mg/kg  | -        |
|                             | LD50 Oral            | Rat     | 470 mg/kg  | -        |
|                             | LD50 Oral            | Rat     | 917 mg/kg  | -        |
|                             | LD50 Unreported      | Rat     | 917 mg/kg  | -        |
|                             | LDLo Oral            | Rat     | 1500 mg/kg | -        |
|                             | TDL0 Unreported      | Rat     | 250 mg/kg  | -        |
|                             | TDL0 Oral            | Rat     | 500 mg/kg  | -        |

**Potential chronic health effects** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
irritation  
watering  
redness

## 12. Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

| Product/ingredient name | Test | Result  | Species  | Exposure |
|-------------------------|------|---|--|----------|
| 2-butoxyethanol         | -    | Acute LC50 1490000 ug/L<br>Fresh water        | Fish - Bluegill -<br>Lepomis<br>macrochirus          | 96 hours |
|                         | -    | Acute LC50 1250000 ug/L<br>Marine water       | Fish - Inland<br>silverside - Menidia<br>beryllina   | 96 hours |
| sodium hydroxide        | -    | Acute EC50 40.38 to 47.13<br>mg/L Fresh water | Daphnia - Water<br>flea - Ceriodaphnia<br>dubia      | 48 hours |
|                         | -    | Acute LC50 125000 ug/L<br>Fresh water         | Fish - Western<br>mosquitofish -<br>Gambusia affinis | 96 hours |
| Preparation             | -    | Acute LC50 217 ppm                            | Daphnia - Daphnia<br>pulex                           | 48 hours |




## 13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

**Date of issue** : 16/07/2009.

## 14. Transport information

### International transport regulations

| Regulatory information | UN number | Proper shipping name     | Classes | PG* | Label  | Additional information  |
|------------------------|-----------|--------------------------|---------|-----|--|---|
| <b>SANS 10228</b>      | UN1760    | CORROSIVE LIQUID, N.O.S. | 8       | III |  | <b>Hazard identification number</b><br>80<br><br><b>Limited quantity</b><br>LQ7<br><br><b>CEFIC Tremcard</b><br>80GC9-II+III  |
| <b>IMDG</b>            | UN1760    | CORROSIVE LIQUID, N.O.S. | 8       | III |  | <b>Emergency schedules (EmS)</b><br>F-A, S-B  |
| <b>IATA</b>            | UN1760    | Corrosive liquid, n.o.s. | 8       | III |  | <b>Passenger and Cargo Aircraft</b> Quantity limitation:<br>5 L<br>Packaging instructions: 818<br><b>Cargo Aircraft Only</b><br>Quantity limitation: 60 L<br>Packaging instructions: 820<br><b>Limited Quantities - Passenger Aircraft</b><br>Quantity limitation: 1 L<br>Packaging instructions:<br>Y818 |

PG\* : Packing group

## 15. Regulatory information

Hazard symbol or symbols :



Irritant

**Risk phrases** : R36/38- Irritating to eyes and skin.

**Safety phrases** : S2- Keep out of the reach of children.  
S46- If swallowed, seek medical advice immediately and show this container or label.

## 16. Other information

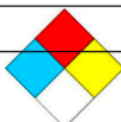
**Full text of R-phrases assigned to ingredients and/or final product** : R22- Harmful if swallowed.  
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.  
R35- Causes severe burns.  
R36/38- Irritating to eyes and skin.

**Full text of classifications assigned to ingredients and/or final product** : C - Corrosive  
Xn - Harmful  
Xi - Irritant

**National Fire Protection Association (U.S.A.)** :

**Date of issue** : 16/07/2009.

5/6



## 16. Other information



Date of issue : 16/07/2009.

Version : 1

### Notice to reader

*The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Data Sheet is the responsibility of the user.*