



better products for a cleaner environment

## **POWER LIME**

### **Cleaner / Disinfectant / Deodorizer**

#### **Product Description**

**POWER LIME** is a multi-purpose product that effectively cleans, disinfects and masks unpleasant odours. It is essential for the regular maintenance of toilets and other foul smelling areas as it leaves a refreshing citrus fragrance after use.

#### **Areas of Use**

**POWER LIME** is ideal for floors, walls and other surfaces in toilets, clinics, hospitals, and all institutions where a clean and healthy working environment is important.

#### **Special Features**

- Combines a quaternary type bactericide with strong disinfectant properties, an effective surface agent and a strong, fresh fragrance
- Suitable for both heavy duty odour masking or general cleaning & disinfecting
- Pleasant lime fragrance that lasts long after use
- Concentrated form gives it maximum efficiency and economy

#### **Directions for Use**

Dilution rates and application methods vary for different situations. Generally recommended dilution rates with water are:

- |   |        |
|---|--------|
| - Mopping or scrubbing floors   | ~ 1:80 |
| - Cleaning and disinfecting walls, sanitary areas and heavily soiled floors | ~ 1:50 |
| - Spraying from tank sprayer as odour mask                                  | ~ 1:5  |

#### **Precautions**

As with most chemical products, avoid ingestion and eye contact. If ingested, dilute by drinking water and seek medical help. If product enters eyes, flushing with water should be sufficient. However, seek medical help if discomfort persists.

# SAFETY DATA SHEET

| SECTION 1 - IDENTIFICATION  |  |  |            |           |
|---|--|--|------------|-----------|
| <b>Product Identifier:</b> POWER LIME   |  | <b>Supplier:</b> Klenco (Singapore) Pte Ltd.<br><b>Address:</b> 18 Gul Crescent, Singapore 629527<br><b>Department:</b> Chemical<br><b>Person in Charge:</b> Chemist |            |           |
| <b>Other means of identification:</b> Cleaner/Disinfectant/Deodorizer   |  | <b>Phone:</b> (65) 6862 3388   |            |           |
| <b>Date of SDS:</b> 30 June 2011  |  | <b>Fax:</b> (65) 6861 7575   |            |           |
| <b>Recommended use and restriction on use:</b> POWER LIME is ideal for floors, walls and other surfaces in toilets, clinics, hospitals, and all institutions where a clean and healthy working environment is important.  |  | <b>Email:</b> www.klenco-asia.com<br><b>Emergency contact:</b> (65) 6862 3388  |            |           |
| SECTION 2 - HAZARDS IDENTIFICATION  |  |  |            |           |
| <b>GHS classification:</b> Acute toxicity: Category 4;<br>Skin irritation: Category 2   |  |  |            |           |
| <b>GHS label elements:</b> Pictogram:   |  | <b>Signal Words:</b> Warning   |            |           |
|    |  |  |            |           |
| <b>Hazard statements:</b>   |  | H302: Harmful if swallowed<br>H315: Causes skin irritation   |            |           |
| <b>Precaution statements:</b>   |  | P102: Keep out of reach of children.<br>P262: Do not get on skin.<br>P280: Wear protective gloves and clothing.  |            |           |
| SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS   |  |  |            |           |
| Chemical Identification   | Component & Composition  | Chemical Formula   | CAS NO.    | EC NO.    |
| Water   | > 90.0 %   | H2O  | 7732-18-5  | 231-791-2 |
| Nonyl phenol ethoxylates  | < 4.0 %  | C <sub>33</sub> H <sub>60</sub> O <sub>10</sub>  | 26571-11-9 | 247-816-5 |
| Alkylbenzyltrimethylammonium chloride   | < 3.0 %  | C <sub>21</sub> H <sub>38</sub> NCI  | 68424-85-1 | 270-325-2 |
| Perfume   | < 3.0 %  | Mixture  | NA         | NA        |
| Yellow dye  | < 0.01 %   | -  | NA         | NA        |
| Blue dye  | < 0.01 %   | -  | NA         | NA        |
| SECTION 4 – FIRST AID MEASURES  |  |  |            |           |
| <b>Inhalation:</b>  | Move to area of fresh air. If breathing has stopped, artificial respiration should be started. Oxygen may be administered if available. Call a physician. Never give anything by mouth to an unconscious person. |  |            |           |
| <b>Skin contact:</b>  | Wash with large amounts of soap and water. If irritation persists, consult a physician.  |  |            |           |
| <b>Eye contact:</b>   | Flush with cool water for at least 15 minutes. Then consult a physician immediately.   |  |            |           |
| <b>Ingestion:</b>   | Do not induce vomiting. Dilute by drinking water. Call a physician immediately.  |  |            |           |
| <b>Notes to Physicians:</b>   | Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.  |  |            |           |
| SECTION 5 – FIRE-FIGHTING MEASURES  |  |  |            |           |
| <b>Suitable fire-extinguishing media:</b>   | Water, dry chemical, carbon dioxide and foam.  |  |            |           |
| <b>Specific hazards arising from the chemical:</b>  | Burning can produce carbon dioxide and/or carbon monoxide.   |  |            |           |
| <b>Special protective actions for fire fighters:</b>  | Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment.  |  |            |           |
| SECTION 6 - ACCIDENTAL RELEASE MEASURES   |  |  |            |           |
| <b>Personal precautions, protective equipment, and emergency measure:</b> Use proper protective equipment (chemical protection suit, gloves, goggles, mask, etc).   |  |  |            |           |
| <b>Environmental precautions:</b> Chemical substance should not be released into the environment (water, soil).   |  |  |            |           |
| <b>Methods and materials for containment and cleaning up:</b> Stop spill at source. Contain material, as necessary, with dike or barrier. Mop, shovel or absorb with inert material and place in sound containers. Rinse remaining residue with excess water. Cover spills with absorbent clay, sawdust or inert material and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations. |  |  |            |           |
| SECTION 7 - HANDLING AND STORAGE  |  |  |            |           |
| <b>Precaution for safe handling:</b> Wash thoroughly after handling, especially before eating and drinking. Wash contaminated goggles, face-shield, and gloves. Launder contaminated clothing before re-use.  |  |  |            |           |
| <b>Conditions for safe storage, including any incompatibilities:</b> Store in cool, dry, well-ventilated area at room temperature. Do not re-use empty container for food, clothing or products for human or animal consumption or where skin contact can occur.  |  |  |            |           |

| <b>SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION</b>               |  |
|---|--|
| <b>Control parameters/ Occupational exposure limits:</b>                |  |
| Short Term Exposure limit - TLV: None                                   |  |
| Long Term Exposure limit – TLV: None                                    |  |
| <b>Appropriate engineering control measures:</b>                        | Normal ventilation is sufficient   |
| <b>Personal Protection:</b>   | Normally not required. Safety glasses / goggles can be worn if splashing is anticipated.   |
| <b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>                     |  |
| <b>Appearance &amp; Odour:</b>  | Green liquid with lime scent.  |
| <b>Solubility in water:</b>   | Complete.  |
| <b>Boiling Point:</b>   | 100 °C   |
| <b>Specific Gravity:</b>  | 1.005 +/- 0.005 g/cm <sup>3</sup>  |
| <b>PH:</b>  | 6.0 +/- 1.0  |
| <b>Flash Point (T.C.C.):</b>  | None to boiling  |
| <b>Flammable Limits - Upper:</b>  | Not applicable   |
| <b>Lower:</b>   | Not applicable   |
| <b>Flammability:</b>  | Not applicable   |
| <b>Vapour Pressure:</b>   | Not determined   |
| <b>Vapour Density:</b>  | Not determined   |
| <b>SECTION 10 - STABILITY AND REACTIVITY</b>                            |  |
| <b>Reactivity/ Incompatible materials:</b>                              | None   |
| <b>Chemical stability:</b>  | Stable under normal temperature and pressure.  |
| <b>Possibility of hazardous reaction:</b>                               | Will not occur.  |
| <b>Condition to avoid:</b>  | Not applicable   |
| <b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>                           |  |
| <b>Acute toxicity: Oral:</b>  | LD 50 (rat): > 0.6 g/kg  |
| <b>Skin or eye irritation:</b>  | This product contains surfactants that may cause mild irritation to eyes and skin of some individuals.   |
| <b>SECTION 12 – ECOLOGICAL INFORMATION</b>                              |  |
| <b>Persistence and degradability:</b>                                   | Product degrades readily by action of microorganism.   |
| <b>Bioaccumulative potential:</b>                                       | It is soluble in water and does not bio-accumulate.  |
| <b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>                             |  |
| <b>Disposal method:</b>   | Dispose off in an approved waste facility according to local regulations.<br>It is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) Re-cycle or rework, if feasible (2) Incinerate at an authorized facility (3) Treat at an acceptable waste treatment facility. |
| <b>SECTION 14 – TRANSPORT INFORMATION</b>                               |  |
| This material is non-regulated and no special requirement is necessary. |  |
| <b>SECTION 15 – REGULATORY INFORMATION</b>                              |  |
| <b>Regulation:</b>  |  |
| Classification:   | This product is a proprietary mixture of cleaning agents and has not been allocated any classification.  |
| Risk phrases:   | R22 Harmful if swallowed<br>R38 Irritating to skin   |
| Safety phrases:   | S02 Keep out of reach of children<br>S24 Avoid contact with skin<br>S36/ 37 Wear suitable protective clothing and gloves   |
| Hazard symbol:  | Irritant   |
| <b>SECTION 16 – OTHER INFORMATION</b>                                   |  |
| <b>Hazard Rating: HMIS (Hazardous Materials Information System)</b>     |  |
| <b>HEALTH:</b>  | 0  |
| <b>FLAMMABILITY:</b>  | 0  |
| <b>REACTIVITY:</b>  | 0  |
| 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme                   |  |

NOTICE: SDS is correct at date of publication. It is not necessarily fully adequate for every circumstance, nor to be confused with or followed in violation of applicable laws or insurance requirements. Health hazards and effects of over-exposure apply only to negligent handling or misuse of product in its concentrated form (as supplied); and not routine exposure to diluted product under normal use. No warranty, express or implied, of merchantability, fitness or accuracy of data is made; as such the vendor assumes no responsibility for injury or damages resulting from use of this product.