



better products for a cleaner environment

# **KLEN 1402**

## **Sanitizing Cleaner**

### **Product Description**

**KLEN 1402** is USDA approved as a final wash for food processing areas, with no further rinsing by water required. It degreases, cleans and disinfects against a broad range of pathogenic microorganisms. **KLEN 1402** provides effective cleaning and sanitizing for food establishments.

### **Special Features**

- USDA Rating: D2 ~ sanitizing for surfaces not always requiring a rinse.
- Biodegradable; US EPA registration # 1459-68.
- Patented Positive Emulsion Cleaning to effectively emulsify grease and oil.
- Formulated with water conditioners and low foaming agents for practicality as a final rinse in itself.
- Fungicidal against the pathogenic fungi Trichophyton mentagrophytes and if used according to AOAC dilution, also effective against following:
  - 1) Escherichia Coli
  - 2) Salmonella Choleraesuis
  - 3) Streptococcus aureus
  - 4) Pseudomonas aeruginosa PRD -10

### **Directions for Use**

Use **KLEN 1402** with confidence in meat-rooms, poultry processing areas, food outlets and other food related establishments at the following dilutions:

General sanitizing ~	1:80
Cleaning & disinfecting ~	1:30
Pseudomonas treatment ~	1:20

### **Precautions**

As with most chemical products, avoid ingestion and eye contact.

# SAFETY DATA SHEET


## SECTION 1 - IDENTIFICATION

<b>Product Identifier:</b> KLEN 1402	<b>Supplier:</b> Klenco (Singapore) Pte Ltd.
<b>Other means of identification:</b> Sanitizing Cleaner	<b>Address:</b> 18 Gul Crescent, Singapore 629527
<b>Date of SDS:</b> 30 June 2011	<b>Department:</b> Chemical
<b>Recommended use and restriction on use:</b> KLEN 1402 provides effective cleaning and sanitizing for food establishments.	<b>Person in Charge:</b> Chemist
	<b>Phone:</b> (65) 6862 3388
	<b>Fax:</b> (65) 6861 7575
	<b>Email:</b> www.klenco-asia.com
	<b>Emergency contact:</b> (65) 6862 3388

## SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Sodium hydroxide	< 1.0 %	NaOH	1310-73-2	215-185-5
Sodium metasilicate	< 2.0 %	Na <sub>2</sub> SiO <sub>3</sub>	6834-92-0	229-912-9
Sodium Tripolyphosphate	< 6.0 %	Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub>	7758-29-4	231-838-7
Sodium EDTA	< 1.0 %	C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> Na <sub>4</sub> O <sub>8</sub>	64-02-8	200-573-9
Alkylbenzyltrimethylammonium chloride	< 3.0 %	C <sub>21</sub> H <sub>38</sub> NCl	68424-85-1	270-325-2
Blue dye	< 0.01 %	-	NA	NA
Water	> 85.0 %	H <sub>2</sub> O	7732-18-5	231-791-2

## SECTION 3 - HAZARDS IDENTIFICATION

<b>GHS classification:</b> Acute toxicity: Oral: Category 4; Skin irritation: Category 2;      Eye irritation: Category 2	
<b>GHS label elements:</b> Pictogram:	Signal word:      Warning
	
<b>Hazard statements:</b> H302: Harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation	
<b>Precaution statements:</b> P102: Keep out of reach of children P262: Do not get on skin. P280: Wear protective gloves/ protective clothing.	

## 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>	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 MEASURE

<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>	Safely stop discharge. Contain material, as necessary, with dike or barrier. Stop material from contaminating soil or from entering sewers or bodies of 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 area at room temperature. Store away from any oxidizing materials. Do not re-use empty container for food, clothing or products for human or animal consumption or where skin contact can occur.

## SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

<b>Control parameters/ Occupational exposure limits:</b>	ACGIH - TLV: Provide suitable personal protective equipment and/or ventilation to maintain exposure below TLV levels.
<b>Appropriate engineering control measures:</b>	Local exhaust ventilation usually required, when vapours, mist, or dusts can be released.
<b>Personal Protection:</b>	Use the protective equipment such as rubber/PVC gloves; protective glasses.

<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance &amp; Odour:</b>	Light blue liquid with faint odour.
<b>Solubility in water:</b>	Complete.
<b>Boiling Point:</b>	100 °C
<b>Specific Gravity:</b>	1.068 +/- 0.005 g/cm <sup>3</sup>
<b>PH:</b>	13.0 +/- 0.5
<b>Flash Point (T.C.C.):</b>	None to boiling <b>Flammable Limits - Upper:</b> Not applicable <b>Lower:</b> Not applicable
<b>Vapour Pressure:</b>	Not determined
<b>Vapour Density:</b>	Not determined
<b>SECTION 10 - STABILITY AND REACTIVITY</b>	
<b>Reactivity/ In compatible materials:</b>	Acids and oxidizers.
<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>	Ingestion of high amount of product may be fatal.
<b>Skin or eye irritation:</b>	This product contains ingredients listed in Section 2 that may cause irritation to eyes and/or skin.
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
<b>Toxicity:</b>	Concentrations with a pH value of 10.5 or greater especially in fresh water may be fatal to fish and other aquatic organism. Can cause damage to aquatic plants and vegetation.
<b>Persistence and degradability:</b>	Product degrades readily by reaction of carbon dioxide in the air as well as decomposition by 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. 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>International regulation:</b>	
<b>Classification:</b>	This product contains sodium hydroxide and sodium metasilicate that is classified as Corrosive under EC Classification.
<b>Risk phrases:</b>	R22      Harmful if swallowed R38      Irritating to skin
<b>Safety phrases:</b>	S02      Keep out of reach of children S24      Avoid contact with skin S36/ 37      Wear suitable protective clothing and gloves
<b>SECTION 16 – OTHER INFORMATION</b>	
<b>Hazard Rating: HMIS (Hazardous Materials Information System)</b>	
<b>HEALTH:</b>	1
<b>FLAMMABILITY:</b>	0
<b>REACTIVITY:</b>	0
<b>0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme</b>	

**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.