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KLEN AQ OXY(S) **Liquid Oxygen Bleach**

Product Description

KLEN AQ OXY(S) is a highly concentrated bleaching liquid containing 20% of oxygen releasing agent for spotless laundry bleaching on all washable fabrics. It is an extremely effective stain removal of bleachable spots like tea, red wine, juice, or food spots at high temperature.

KLEN AQ OXY(S) can be used safely on fabrics sensitive to chlorine bleaching. It is economical to use as it will not harm fabrics thereby extending the life of the fabrics.

Properties

- Extremely positive bleaching results.
- Suitable for all degrees of water hardness, washing systems and machines.
- Readily soluble in water.
- Adds to washing effect.

Chemical Composition

- Bleaching agent
- Stabilizer

Application

Add **KLEN AQ OXY(S)** in bleaching operation according to the dosage guidelines given. Washing time is usually between 8 to 12 minutes depending on degree of soiling. The best bleaching effect at temperatures between 70 °C to 85 °C.

Dosage

- * Light to Medium Soils: 3.75 to 10 ml/kg of dry wash
- * Medium to Heavy Soils: < 12.5 ml/kg of dry wash

Precaution

As with all chemical products, ingestion and eye contact is to be avoided. When handling product, normal work clothing covering arms and legs shall be worn.

Storage

Store in a cool and dry area. Containers of unused product must be kept close at all times.

* For local market

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
Product Identifier: KLEN AQ OXY(S)		Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist		
Other means of identification: Liquid Oxygen Bleach		Phone: (65) 6862 3388		
Date of SDS: 01 January 2024		Fax: (65) 6861 7575		
Recommended use and restriction on use: KLEN AQ OXY can be used safely on fabrics sensitive to chlorine bleaching. It is economical to use as it will not harm fabrics thereby extending the life of the fabrics.		Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249		
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Category 4; Skin corrosion: Category 1, Eye damage: Category 1				
GHS label elements: Pictogram:  Signal Words: Danger				
Hazard statements: H242: Heating may cause a fire. H302: Harmful if swallowed. H314: Causes skin burns and eye damage.				
Precaution statements: P102: Keep out of reach of children. P233: Keep container tightly closed. P235: Keep cool. P264: Wash thoroughly after handling. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.				
SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Hydrogen Peroxide	< 20.0 %	H2O2	7722-84-1	231-765-0
Water	> 80.0 %	H ₂ O	7732-18-5	231-791-2
SECTION 4 – FIRST AID MEASURES				
Inhalation: 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.				
Skin contact: Wash with large amounts of soap and water. If irritation persists, consult a physician.				
Eye contact: Flush with cool water for at least 15 minutes. Then consult a physician immediately.				
Ingestion: Do not induce vomiting. Rinse mouth and dilute by drinking water. Call a physician immediately.				
Notes to Physicians: Treat symptomatically. Toxicity is as according to Boron or Peroxides.				
SECTION 5 – FIRE-FIGHTING MEASURES				
Suitable fire-extinguishing media: Water spray and water fog.				
Specific hazards arising from the chemical: Burning can produce carbon dioxide and/or carbon monoxide.				
Unusual Fire/Explosion Hazards: Not combustible but may cause other materials to burn more fiercely due to the liberation of oxygen under heat.				
Special protective actions for fire fighters: 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				
Personal precautions, protective equipment, and emergency measures: Use proper protective equipment (chemical protection suit, gloves, goggles, mask, etc).				
Environmental precautions: Chemical substance should not be released into the environment (water, soil).				
Methods and materials for containment and cleaning up: Safely stop discharge. Contain material, as necessary, with dike or barrier. Stop material from contaminating soil or from contacting combustible materials. Ventilate the space involved. Flush with plenty of water. Rinse combustible materials that are exposed to the product. Absorbed spills and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.				
SECTION 7 - HANDLING AND STORAGE				
Precaution for safe handling: Wash thoroughly after handling, especially before eating and drinking. Wash contaminated goggles, face-shield, and gloves. Launder contaminated clothing before re-use.				
Conditions for safe storage, including any incompatibilities: This product must be stored in cool, dry, well-ventilated area at room temperature. Keep protected from physical damage and away from moisture, combustible materials and incompatible materials like acids, alkali, and reducing agents. Containers must be closed tightly when not in use. 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	
Control parameters/ Occupational exposure limits:	ACGIH - TLV: Provide suitable personal protective equipment and/or ventilation to maintain exposure below TLV levels.
Appropriate engineering control measures:	Sufficient ventilation should be provided vapors, mist, or dusts can be released.
Personal Protection:	The protective equipment such as safety glasses/goggles and rubber/PVC gloves must be worn at all times.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour:	Water white liquid with slightly sharp odour.
Solubility in water:	Complete.
Boiling Point:	114.0 deg C
Specific Gravity:	1.10 +/- 0.05 g/cm ³
PH:	3.0 +/- 0.5
Flash Point (T.C.C.):	None
Flammable Limits - Upper:	None
Lower:	None
Vapour Pressure:	18.3 @ 20 deg C
Vapour Density:	1.0
SECTION 10 - STABILITY AND REACTIVITY	
Reactivity/ In compatible materials:	Material decomposes if contaminated with other incompatible materials like acids, alkali and reducing agents with possibility of fire.
Chemical stability:	Stable under normal temperature and pressure.
Possibility of hazardous reaction:	Will not occur.
Condition to avoid:	None.
SECTION 11 – TOXICOLOGICAL INFORMATION	
Acute toxicity: Oral:	Oral LD 50 (rat): ~ 805 mg/kg This product contains ingredients categorized as moderately toxic if ingested.
SECTION 12 – ECOLOGICAL INFORMATION	
Toxicity:	This material is highly toxic to marine algae (LC50 0.85 mg/l), moderately toxic to Daphnia magna (EC50 7.7 mg/l) and Daphnia pulex (LC50 2.4 mg/l).
Persistence and degradability:	Product degrades readily on exposure to air releasing oxygen.
Bioaccumulative potential:	It is soluble in water and does not bio-accumulate.
SECTION 13 – DISPOSAL CONSIDERATIONS	
Disposal method:	Dispose of 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.
SECTION 14 – TRANSPORT INFORMATION	
Packing Group: II / IMO : 5.1 / UN No. 2014 HS Code: 28470010	
SECTION 15 – REGULATORY INFORMATION	
International regulation:	
Classification:	This product contains ingredient that is classified as Corrosive under EC Classification.
Risk phrases:	R08 Contact with combustible material may cause fire. R34 Causes burns.
Safety phrases:	S01/02 Keep locked up and out of reach of children. S03 Keep in cool place. S28 After contact with skin, wash immediately with plenty of soap. S36/39 Wear suitable protective clothing and eye/face protection.
SECTION 16 – OTHER INFORMATION	
Hazard Rating: HMIS (Hazardous Materials Information System)	
HEALTH: 1	
FLAMMABILITY: 0	
REACTIVITY: 2	
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.