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KLEN AQ CHLOR

Liquid Chlorine Bleaching

Product Description

KLEN AQ CHLOR is liquid chlorine bleach for safe but excellent bleaching and disinfecting of linen, which can be found in hospital and institutional work.

KLEN AQ CHLOR contains 10% active chlorine to give consistently excellent stain removal without damaging fabrics.

Properties

- Bleaches gently and disinfect thoroughly.
- Ease of application by adding dry to the wheel.
- High stability of bleaching agent requires no additional dosing. Thus preventing damage to textiles.
- Chemo-thermal disinfectant recognition.

Chemical Composition

- Bleaching agent

Application

Add **KLEN AQ CHLOR** in bleaching operation according to the dosage guidelines given. Washing time is usually between 7 to 10 minutes depending on degree of soiling and at pH value of 10.5 to 10.8. The best bleaching effect at water temperatures between 50 to 60 °C.

Dosage

- * Light to Medium Stain : 2 – 4 ml/kg of dry wash
- * Heavy Stain : 4 – 6 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 area and avoid contact with water. Containers of unused product must be kept close at all times.

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
Product Identifier: KLEN AQ CHLOR		Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist		
Other means of identification: Liquid Chlorine Bleach		Phone: (65) 6862 3388		
Date of SDS: 01 January 2024		Fax: (65) 6861 7575 Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249		
Recommended use and restriction on use: KLEN AQ CHLOR is liquid chlorine bleach for safe but excellent bleaching and disinfecting of linen, which can be found in hospital and institutional work.				
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Category 3; Skin corrosion: Category 1, Eye damage: Category 1				
GHS label elements: Pictogram:		Signal Words: Danger		
 				
Hazard statements:	H272: May intensify fire; oxidizer. H301: Toxic if swallowed. H314: Causes skin burns & eye damage.			
Precaution statements:	P102: Keep out of reach of children. P262: Do not get on skin. 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.
Sodium Hypochlorite	< 12.0 %	NaClO	7681-52-9	231-668-3
Water	> 88.0 %	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. Dilute by drinking large amount of milk or gelatin solution. Call a physician immediately.			
Notes to Physicians:	Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.			
SECTION 5 – FIRE-FIGHTING MEASURES				
Suitable fire-extinguishing media:	Water, dry chemical, carbon dioxide and foam.			
Specific hazards arising from the chemical:	Burning can produce carbon dioxide and/or carbon monoxide.			
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 entering sewers or bodies of water. Prevent spillage from coming into contact with any acidic material. Use proper protective equipment. Shovel spills and place in closed chemical waste containers. May be absorbed by using sand or diatomaceous earth. 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 contains oxidizing materials and should not be made to contact acids, reducing agents and / or organic materials. Store in a cool, dry, well-ventilated area at room temperature. Keep away from materials stated above. Store away from sunlight and heat to avoid deterioration. 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:		Local exhaust ventilation is recommended when vapors, mist, or dusts can be released.		
Personal Protection:		Use the protective equipment such as rubber/ PVC gloves & safety glasses / goggles.		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour:	Straw yellow liquid with mild chlorine odour.
Solubility in water:	Complete.
Boiling Point:	Not applicable
Specific Gravity:	1.155 +/- 0.01 g/cm ³
PH (Concentrate):	11.0 +/- 0.5
Flash Point (T.C.C.):	None Flammable Limits - Upper: None Lower: None
Vapour Pressure:	12.1 mm Hg @ 20 deg C
Vapour Density:	Not Determine
SECTION 10 - STABILITY AND REACTIVITY	
Reactivity/ In compatible materials:	Acids, Reducing agents and organic materials.
Chemical stability:	Stable under normal temperature and pressure.
Possibility of hazardous reaction:	Will not occur.
Condition to avoid:	Store in cool environment away from acidic materials.
SECTION 11 – TOXICOLOGICAL INFORMATION	
Acute toxicity: Oral:	Ingestion of high amount of product may be fatal.
Skin or eye irritation:	This product contains oxidizing materials that may cause damage to eyes and/or skin.
SECTION 12 – ECOLOGICAL INFORMATION	
Toxicity:	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.
Persistence and degradability:	Product degrades readily by reaction of carbon dioxide in the air as well as decomposition by microorganism.
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	
PG: III / IMO: 8 / UN No. 1791 HS Code: 28289010	
SECTION 15 – REGULATORY INFORMATION	
International regulation:	
Classification:	This product is classified as oxidizing agent under EC Classification.
Risk phrases:	R08 Contact with combustible material may cause fire. R34 Causes burns.
Safety phrases:	S02 Keep out of reach of children. S24 Avoid contact with skin. S36/37 Wear suitable protective clothing and gloves.
SECTION 16 – OTHER INFORMATION	
Hazard Rating: HMIS (Hazardous Materials Information System)	
HEALTH:	2
FLAMMABILITY:	0
REACTIVITY:	3
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.