

# *KLEN 2101* Condenser Coil Brightener

### Product Description

**KLEN 2101** is simple to use and does not need agitation or scrubbing to clean and brighten condenser coils to restore its peak cooling efficiency. **KLEN 2101** works as a descaler for boilers and cooling tower fins and lowers air-conditioning operation costs.

## Areas of Use

**KLEN 2101** can be used at air-conditioned repair shops, establishment that services and maintains air-conditioning equipment for systems for apartment, commercial, hospital, Government buildings, factories, etc.

#### **Special Features**

- Easy to Use. Requires no agitation or scrubbing.
- Economical. *KLEN 2101* needs no costly labour to scrub coil clean, increases cooling efficiency and lowers air-conditioning operational costs, prolonging equipment life.
- Safe to Use. *KLEN 2101* is non flammable, eliminates fire hazards in storage or use.

#### **Directions for Use**

- Dilute *KLEN 2101* at rate 5:3 with water (pour water first).
- Wet condenser coil and fin with water. Apply *KLEN 2101* over the wet area. Allow short period for *KLEN 2101* to break up oily grime and industrial fallout impurities bonded to condenser coil and fins.
- Spray thoroughly with pressure hose, flushing soil clean from coil.
- Rinse all equipment that has come in contact with *KLEN 2101*. For heavy built-up, repeat application several times.

#### **Precautions**

Avoid ingestion and eye contact. If ingested, do not induce vomiting. Dilute by drinking water and consult physician immediately. If in contact with eyes, flush with cool water for at least 15 minutes and consult a physician immediately. Wash with large amounts of water if in contact with skin and consult physician if irritation persists.

# SAFETY DATA SHEET

Product Identifier: KLEN 2101       Supplier: Klenco (Singapore) Pite Ltd.         Address: 16 3(d) Cressent. Singapore 629627       Department: Chemical         Date of SDS: 1 January 2014       Prone: (65) 6862 3388         Recommende use and restriction on use: KLEN 2101 can be used at alr-conditionic quipment for systems for partment, commercial, hospital.       Phone: (65) 6862 3388         Conditionic quipment for systems for partment, commercial, hospital.       Emergency contact: (65) 6862 3388         Conditionic quipment for systems for partment, commercial, hospital.       Emergency contact: (65) 6862 3388         GHS table idements: Pictory at hoxicity: Category 3       Signal word: Danger         GHS table idements: Pictory and toxicity: Category 3       Signal word: Danger         GHS table idements: Pictory at toxicit if swallowed H141: Causes skin burns and eye damage       Precaution statements: H201: Toxic if swallowed H141: Causes skin burns and eye damage         Precaution statements: H201: Toxic if swallowed        Category 1       Category 233: Reep container tightly dosed.         P30: Waar protective gloves' protective clothing' eye protection/ face protection.       EC NO.         Phosphoric acid       Cay %       Category 1       Category 247: 248: 243: 243: 242         Vayd at the cause of fresh als.       I H3PO4       T684: 382. 231: 243: 242       Category 24: 274: 248: 242         Phosphoric acid       Cay %       Category 1       C	SECTION 1 - IDENTIFICATION							
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Other means of identification: Acidic Condenser Coll Brightener         Person in Charge: Chemist           Date of SDS: 1 January 2014         Phore: (65) 6861 7875           Recommended use and restriction on use: KLEN 2101 can be used at conditioned repair shops, extabilishment that services and maintains ari-conditioned repair shops, extabilishment that services and maintains ari-conditioned repair shops, extabilishment that services and maintains ari-conditioning equipment for systems for apartment, commercial, hospital, Government buildings, factories, etc.           GWES classification: Acute oral toxicity: Category 3         Stin corrosion: Category 1; Serious eve damage: Category 1           GHS label elements:         Pictogram:         Sign and the series an								
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Blue dye         < 0.01 %         -         NA         NA           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.         Na         NA           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:         Induce vomiting.         Dilute by drinking water. 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, fog and foam.           Specific hazards arising from the chemical:         Burning can produce carbon dioxide, carbon monoxide and traces of phosphoric oxides.           Special protective actions for fire fighters::         Fire fighters may be exposed to the products of combustion should wear a self-contained breathing aparatus with full protective equipment.           Environmental precautions, protective equipment, and emergency measure: Use proper protective equipment (chemical protection suit, gloves, goggles, mask, etc).         Chemical substance should not be released into the environment (water, soil).           Me								
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Handle all containers carefully. Do not throw or roll on the ground to prevent damage to containers. No other special precautions					s. No other speci	al precautions		
are needed for this product, as it is a mixture. Follow good manufacturing and handling practices. 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 COM</b>	ITROLS/ PERSONAL PROTECTION			
Control parameter		ACGIH - TLV: Provide suitable personal protective equipment			
		and/or ventilation to maintain exposure below TLV levels.			
Appropriate engineering control measures:		ocal exhaust ventilation usually required, when vapours, mist, or dusts can be released.			
Personal Protect	ion: Use the protective equipment s	such as rubber/PVC gloves; protective glasses.			
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES					
Appearance & O					
Solubility in wate		*			
Boiling Point:	100 <sup>0</sup> C				
Specific Gravity:	1.090 +/- 0.005 g/cm <sup>3</sup>				
PH:	2.5 +/- 0.5				
Flash Point (T.C.	C.): None to boiling Flammabl	e Limits - Upper: Not applicable Lower: Not applicable			
Vapour Pressure					
Vapour Density:	Not determined				
	SECTION 10 - STA	BILITY AND REACTIVITY			
	npatible materials: Strong alkalis and ox				
Chemical stabilit		ure and pressure.			
	ardous reaction: Will not occur.				
Condition to avo					
		OLOGICAL INFORMATION			
Acute toxicity: O					
Skin or eye irritat	ion: This product contains acidic m	aterial that will cause burns and intense irritation to eyes and/or skin.			
	SECTION 12 – ECO	LOGICAL INFORMATION			
Toxicity:		lower especially in fresh water may be fatal to fish and other			
aquatic organism.	Can cause damage to aquatic plants and	vegetation.			
Persistence and		adily by reaction of carbon dioxide in the air as well as			
decomposition by microorganism.					
Bioaccumulative	potential: It is soluble in water and does				
		OSAL CONSIDERATIONS			
Disposal method	: 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 fa	·				
		NSPORT INFORMATION			
	This material is non-regulated a	nd no special requirement is necessary.			
		ULATORY INFORMATION			
International reg					
Classification:		s an ingredient that is classified as corrosive under EC Classification.			
Risk phrases:	R28 Very toxic if swallowed				
Safaty phrases:	R34 Causes burns S07 Keep container tightly closed				
Safety phrases:	S07 Keep container tightly closed S18 Handle and open container wit	h care			
	S18 Handle and open container wit S50 Do not mix with oxidizing mate				
SECTION 16 – OTHER INFORMATION					
Hazard Rating: HMIS (Hazardous Materials Information System) HEALTH: 2					
FLAMMABILITY: 0					
REACTIVITY: 1					
-	ht, 2=Moderate, 3=Serious, 4=Extreme				
<u></u>					

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.