

KLEN 2102 Self Rinsing Chiller Coil Cleaner

Product Description

KLEN 2102 is a self-rinsing coil renovator that cleans and restores chiller coils and fins to maximum cooling capacity through natural condensation. It is non-corrosive and does not harm chiller coil and fins, thus cutting down expensive repair costs and prolonging equipment life. **KLEN 2102** is non flammable and does not produce toxic vapour and causes no health or fire hazards. **KLEN 2102** can also be used as a filter cleaning or filter coating.

Areas of Use

KLEN 2102 can be used for air-condition service and in workshops, food processing areas, storage plants and buildings with fan coil cooling systems. It can also be used as a filter cleaner or in concentration, used as a filter coating.

Special Features

- Self rinsing. Cleans chiller coil through natural condensation. Breaks up stain and atmospheric dirt bonded to chiller coil and fins and floats them down to condenser pan.
- Economical. Properly cleaned chiller coil increases cooling efficiency for minimum power consumption. Non corrosive, thus leaves no harmful residue, eliminating frequent breakdowns or costly replacement.
- Safe. Non flammable and does not contain any acid or special precaution to use or store.
- Gives off pleasant perfume when I use.

Directions for Use

- Use as it is or dilute at rate 3:5. Pour water into sprayer container before *KLEN 2102*.
- Switch off air-conditioner unit, spray directly from top onto cooling coil and fin area.
- Switch on air-conditioner unit, *KLEN 2102* will, through natural condensation, loosen dirty soil and float dirt onto condensation tray within minutes.
- Clean and coat filter. Dip filter into container to clean and rinse away *KLEN 2102* and dirty particles with water. Spray concentrated *KLEN 2102* on both sides of cleaned filter to form meshwork that traps tiny atmospheric particles from passing through filter.

Precautions

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

KLENCO (SINGAPORE) PTE LTD

18 Gul Crescent, Singapore 629527 • Tel: (65) 6862 3388 • Fax: (65) 6861 7575 • info@klenco-asia.com • www.klenco-asia.com Company Registration No: 197100402R Singapore • China • Malaysia • Thailand • ASEAN • South Asia

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier: KLEN 2102			Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist			
Other means of identification: Self Rinsing Chiller Coil Cleaner						
Date of SDS: 1 January 2014			Phone: (65) 6862 3388			
Recommended use and restriction on use: KLEN 2102 can be used for			Fax: (65) 6861 7575			
	orkshops, food processing areas, s		Email: www.kler			
plants and buildings with fan	Emergency contact: (65) 6862 3388					
filter cleaner or in concentrati						
	SECTION 2 - HAZAF	RDS IDEN	TIFICATION			
GHS classification: Acute to		irritation. Cat	a a a a ' a			
Skin irritation: Category 2; Eye irritation: Category 2 GHS label elements: Pictogram: Signal word: Warning						
Hazard statements: H320:	Causes eye irritation		-			
Precaution statements:	P102: Keep out of reach of childre	en.				
	P233: Keep container tightly close	ed.				
	P262: Do not get in eyes.					
SECTI	ON 3 - COMPOSITION/ IN			REDIENTS		
Chemical Identification	Component & Composition	Chemical	Formula	CAS NO.	EC NO.	
Tetrapotassium	< 4.0 %	K407P4		7320-34-5	230-785-7	
pyrophosphate						
Alkyl diamine oxide	< 2.0 %	C ₁₅ H ₃₃ NC		70592-80-2	274-687-2	
Nonyl phenol Ethoxylate	< 2.0 %	C ₃₃ H ₆₀ O ₁₀		26571-11-9	247-816-5	
Dipropylene Glycol	< 2.0 %	СНЗО[СН	2CH(CH3)O]2H	34590-94-8	252-104-2	
Monomethyl ether Hydroxyethyl Cellulose	< 1.0 %		,	9004-62-0	NA	
Water	> 85.0 %	$\begin{array}{c} C_2 H_6 O_2 \cdot x \\ H_2 O \end{array}$		7732-18-5	231-791-2	
Perfume	< 0.2 %	Mixture		NA	NA	
Red dye	< 0.01 %	-		NA	NA	
	SECTION 4 – FIRS		ASURES			
Inhalation: Move to	area of fresh air. If breathing has st			d be started. Oxv	gen may be	
	Il a physician. Never give anything				g,	
	th large amounts of soap and water					
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, carbon dioxide and foam.						
Specific hazards arising from the chemical: Burning can produce carbon dioxide, 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 - ACCIDENT					
Personal precautions, protective equipment, and emergency measure: Use proper protective equipment (chemical						
protection suit, gloves, goggles, mask, etc). Environmental precautions: Chemical substance should not be released into the environment (water, soil).						
	containment and cleaning up:		,	,	nacaseany with	
	from contaminating soil or from enter		stop discharge. Cor or bodies of water	nam material, as	necessary, with	
	lay, sawdust or inert material and pl			ntainers. Dispose	of according to	
applicable local, state and fee						
	SECTION 7 - HANDI	LING 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.						
Store away from any oxidizin	e, including any incompatibilities: g materials. Do not re-use empty co		n cool, dry, well-ven ood, clothing or proc			
consumption or where skin c	ontact 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:	Normal ventilation is sufficient.				
Personal Protection: Use the protective equipment s anticipated.	uch as rubber/PVC gloves; protective glasses if splashing is				
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES					
Appearance & Odour: Clear red liquid with pleasant so	cent.				
Solubility in water: Complete.					
Boiling Point: 100 ° C					
Specific Gravity: 1.030 +/- 0.005 g/cm ³					
PH: 10.0 +/- 0.3					
	e Limits - Upper: Not applicable Lower: Not applicable				
Vapour Pressure: Not determined					
Vapour Density: Not determined					
SECTION 10 - STABILITY AND REACTIVITY					
Reactivity/ In compatible materials: Strong acids & oxidiz					
Chemical stability: Stable under normal temperature and pressure.					
Possibility of hazardous reaction: Will not occur.					
Condition to avoid: Not applica					
SECTION 11 – TOXICOLOGICAL INFORMATION					
Acute toxicity: This product has low levels of t					
SECTION 12 – ECO	LOGICAL INFORMATION				
Toxicity: Concentrations with a pH value of 10.5 or aquatic organism. Can cause d	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 mil					
	and does not bio-accumulate.				
SECTION 13 – DISP	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 facility.					
SECTION 14 – TRANSPORT INFORMATION					
This material is non-regulated and no special requirement is necessary.					
SECTION 15 – REGULATORY INFORMATION					
International regulation: Classification: This product is not classified. Risk phrases: R36 Irritating to eyes Safety phrases: S02 Keep out of reach of children S07 Keep container tightly closed S25 Avoid contact with eyes					
SECTION 16 – OTHER INFORMATION					
Hazard Rating: HMIS (Hazardous Materials Information S HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme	ystem)				

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.