

# **KLEN 1101**

# **Industrial Surfaces Renovator**

# **Product Description**

**KLEN 1101** is a unique water based degreaser that is as effective as solvent based cleaners. It is highly concentrated and thus extremely economical, yet is safe to use on most surfaces. **KLEN 1101** is the ideal heavy duty cleaner for machinery, equipment and floors in factories, aircraft hangars, workshops and most other industrial applications.

## **Special Features**

- Unique formula breaks down the molecular bonds between soil and surfaces, then emulsifies the soil for easy removal.
- Fully biodegradable.
- Non-corrosive, non-flammable & produces no toxic vapours; safe to use on food handling equipment so long as thoroughly rinsed with water.

# **Directions for Use**

KLEN 1101 can be used for various applications, general recommended dilution rates are:

Automotive parts, machine tools, presses, drills or heavily greased area	~ 1:1
Boats & marine equipment, general production machinery	~ 1:3
Conveyer belts, loading ramps, vents & filters ~ 1:5	
Elevator and lift, guard rails and safety equipment	~ 1:10

For use in mechanized floor scrubbing, general recommended dilution rates are:

Heavy soil~ 1:20 Medium soil~ 1:40 Light soil~ 1:60 to 80

#### **Precautions**

As with most chemicals, avoid ingestion and eye contact. Wash hands thoroughly after use.

# SAFETY DATA SHEET

-/ /				
SECTION 1 - IDENTIFICATION				
Product Identifier: KLEN 1101	Supplier: Klenco (Singapore) Pte Ltd.			
	Address: 18 Gul Crescent, Singapore 629527			
	Department: Chemical			
Other means of identification: Industrial Surface Renovator	Person in Charge: Chemist			
Date of SDS: 30 June 2011	<b>Phone:</b> (65) 6862 3388			
Recommended use and restriction on use: KLEN 1101 is the ideal	Fax: (65) 6861 7575			
heavy duty cleaner for machinery, equipment and floors in factories, aircraft hangars,	Email: www.klenco-asia.com			
workshops and most other industrial applications.	Emergency contact: (65) 6862 3388			

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Ethylene glycol butyl ether	< 10.0 %	CH3(CH2)3OCH2CH2OH	111-76-2	203-905-0
Sodium metasilicate	< 10.0 %	Na2SiO3	6834-92-0	229-912-9
Potassium hydroxide	< 2.0 %	KOH	1310-58-3	215-181-3
Tripropylene glycol methyl	< 2.0 %	CH3O[CH2CH(CH3)O]3H	34590-94-8	247-045-4
ether				
Nonyl phenol Ethoxylate	< 3.0 %	C <sub>33</sub> H <sub>60</sub> O <sub>10</sub>	26571-11-9	247-816-5
Tetrapotassium	< 2.0 %	K4O7P4	7320-34-5	230-785-7
pyrophosphate				
Sodium EDTA	< 0.5 %	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
Water	> 85.0 %	H <sub>2</sub> O	7732-18-5	231-791-2
Blue dye	< 0.01 %	-	NA	NA
Red dye	< 0.01 %	-	NA	NA

#### **SECTION 3 - HAZARDS IDENTIFICATION**

GHS classification: Acute toxicity: Oral: Category 4;

Skin irritation: Category 2

GHS label elements: Pictogram: Signal word: Warning



Hazard statements: H302: Harmful if swallowed

H315: Causes skin irritation

**Precaution statements:** P102: Keep out of reach of children

P262: Do not get on skin.

P280: Wear protective gloves/ protective clothing.

### **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.

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 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 - ACCIDENTIAL RELEASE MEASURE**

**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).

**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. 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**

**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 is a combustible liquid. Store in cool, dry, well-ventilated area at room temperature. Keep away from any possible source of ignition. Store away from any oxidizing materials. Do not reuse empty container for food, clothing or products for human or animal consumption or where skin contact can occur.

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		NTROLS/ PERSONAL PROTECTION		
Control parameters/ Occupational exposure limits:		ACGIH - TLV: Provide suitable personal protective equipment		
A		and/or ventilation to maintain exposure below TLV levels.		
Appropriate engir		Local exhaust ventilation usually required, when vapours, mist, or		
Personal Protection	Lisa the protective equipment su	dusts can be released. Ich as rubber/PVC gloves; protective glasses if splashing is		
reisonal Flotecti	anticipated.	ich as rubbent vo gioves, protective giasses il spiasi iling is		
		AND CHEMICAL PROPERTIES		
Appearance & Od				
Solubility in water	arance & Odour: Clear purple liquid with pleasant odour.  Clear purple liquid with pleasant odour.  Complete.			
Boiling Point:	100 ° C			
Specific Gravity:	1.045 +/- 0.005 g/cm <sup>3</sup>			
PH:	13.0 +/- 0.3			
Flash Point (T.C.C		e Limits - Upper: Not applicable Lower: Not applicable		
Vapour Pressure:				
Vapour Density:	Not determined			
		BILITY AND REACTIVITY		
Reactivity/ In com		chlorinated detergents & sanitizers.		
Chemical stability		emperature and pressure.		
Possibility of haza		- <u> </u>		
Condition to avoid				
	SECTION 11 - TOXIC	OLOGICAL INFORMATION		
Acute toxicity: Or				
Skin or eye irritati		s listed in Section 2 that may cause irritation to eyes and/or skin.		
		DLOGICAL INFORMATION		
Toxicity:		greater especially in fresh water may be fatal to fish and other		
TOXICITY.	aquatic organism. Can cause damage to a			
Persistence and o		dily by reaction of carbon dioxide in the air as well as		
	decomposition by mid			
Bioaccumulative	ootential: It is soluble in water and does no	ot bio-accumulate.		
	SECTION 13 - DISP	OSAL CONSIDERATIONS		
Disposal method:	Dispose off in an approved waste facility ac	coording to local regulations.		
	It is recommended that an alternative be se	elected according to the following order of preference, based upon		
	eptability: (1) Re-cycle or rework, if feasible (2	) Incinerate at an authorized facility (3) Treat at an acceptable waste		
treatment facility.				
		ANSPORT INFORMATION		
	This material is non-regulated a	and no special requirement is necessary.		
	SECTION 15 – REG	ULATORY INFORMATION		
International regu	lation:			
Classification:		and potassium hydroxide as ingredients that are classified		
	as corrosive under EC Classification.			
Risk phrases:	R22 Harmful if swallowed			
Safety phrases:	R38 Irritating to skin S02 Keep out of reach of children			
Jaiety Piliases.	S02 Keep out of reach of children S24 Avoid contact with skin			
	S36/37 Wear suitable protective clothing	and gloves		
		OTHER INFORMATION		
Hazard Rating: HI	MIS (Hazardous Materials Information Sys			
	viio (nazardous materiais imormation sys 1	noinj		
FLAMMABILITY:	•			
	)			

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.

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme

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