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KLEN 1702 **(D.O.T) Detergent of Transportation**

Product Description

KLEN 1702 is a safe, non-corrosive, non toxic emulsifier for use in cleaning maintenance of all exterior surfaces of transportation vehicles. Its emulsifying action lifts and holds soil in suspension prevents redeposition of greasy soil, making cleaning maintenance quick and effective through spontaneous emulsion. ***KLEN 1702*** assures free rinsing of all soils and eliminates costly repair or replacement of parts.

Areas of Use

Emulsify, loosen and float away dirt, oil, grease, atmospheric salt, dust grime, exhaust fume and motor oil, found on exterior surfaces of public transport, bus, lorry, goods, transportation vehicle, container, aircraft etc.

Special Features

- Safe- ***KLEN 1702*** will not harm aluminium, steel, plastic, rubber, plexiglass or any surface coating.
- Contains no harsh fumes- ***KLEN 1702*** emits no fumes or harsh odours.
- Non redeposition- Strong emulsion guarantees non-redeposition of greasy, dirty soil during wash cycles.
- Prolongs automatic washing apparatus- ***KLEN 1702*** reduces scale, lime build-up in automatic washing apparatus. Reduces costly repairs or replacement of expensive machinery.

Directions for Use

- Dilute ***KLEN 1702*** up to 20 parts water, depending on soil load.
- Mop, spray wipe, pressure pump sprat method are equally effective.
- Apply diluted ***KLEN 1702*** directly onto surface that needs cleaning. Rinse away emulsified dirty soil with water.

Precautions

Avoid using on surface of 48.9°C and splashing into eyes or swallowing it.
Rinse thoroughly with water, equipment or prolonged skin area in contact with ***KLEN 1702***.

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
Product Identifier: KLEN 1702		Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist		
Other means of identification: Detergent of Transportation		Phone: (65) 6862 3388		
Date of SDS: 1 January 2022		Fax: (65) 6861 7575		
Recommended use and restriction on use: Emulsify, loosen and float away dirt, oil, grease, atmospheric salt, dust grime, exhaust fume and motor oil, found on exterior surfaces of public transport, bus, lorry, goods, transportation vehicle, container, aircraft etc.		Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249		
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Oral: Category 4; Skin irritation: Category 2; Eye irritation: Category 2				
GHS label elements: Pictogram:  Signal word: Warning				
Hazard statements: H302: Harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation				
Precaution statements: P102: Keep out of reach of children P262: Do not get on skin. P280: Wear protective gloves/ protective clothing.				
SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Potassium Hydroxide	< 1.0 %	KOH	1310-58-3	215-181-3
Sodium Metasilicate	< 2.0 %	Na ₂ SiO ₃	6834-92-0	229-912-9
Tetrapotassium pyrophosphate	< 5.0 %	K ₄ O ₇ P ₄	7320-34-5	230-785-7
Alkyl Diamine Oxide	< 2.0 %	C ₁₅ H ₃₃ NO	70592-80-2	274-687-2
Nonyl Phenol Ethoxylate	< 4.0 %	C ₃₃ H ₆₀ O ₁₀	26571-11-9	247-816-5
Dipropylene Glycol Monomethyl Ether	< 5.0 %	CH ₃ O[CH ₂ CH(CH ₃)O] ₂ H	34590-94-8	252-104-2
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: 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 Fog, 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: Store in cool, dry area at room temperature. Store away from any oxidizing materials. 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:	Normal ventilation is sufficient as ingredients stated in Section 2 are powders and have already been dissolved by water into the product.
Personal Protection:	Use the protective equipment such as rubber/PVC gloves; protective glasses if splashing is anticipated.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour:	Clear amber liquid with distinct odour.
Solubility in water:	Complete.
Boiling Point:	100 °C
Specific Gravity:	1.050 +/- 0.005 g/cm ³
PH:	13.2 +/- 0.3
Flash Point (T.C.C.):	None to boiling Flammable Limits - Upper: Not applicable Lower: Not applicable
Vapour Pressure:	Not determined
Vapour Density:	Not determined
SECTION 10 - STABILITY AND REACTIVITY	
Reactivity/ In compatible materials:	Do not mix with Acids and Oxidizers.
Chemical stability:	Stable under normal temperature and pressure.
Possibility of hazardous reaction:	Will not occur.
Condition to avoid:	Not applicable
SECTION 11 – TOXICOLOGICAL INFORMATION	
Acute toxicity: Oral:	Ingestion of high amount of concentrated product may be harmful.
Skin or eye irritation:	This product contains ingredients listed in Section 2 in the % stated that may cause mild irritation 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 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. HS Code: 34021200	
SECTION 15 – REGULATORY INFORMATION	
International regulation:	
Classification:	This product contains Potassium Hydroxide and Sodium Metasilicate that is classified as Corrosive under EC Classification.
Risk phrases:	R22 Harmful if swallowed R38 Irritating to skin
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: 1	
FLAMMABILITY: 0	
REACTIVITY: 0	
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.