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cleaner environment

KLEN 1809 **Solvent Emulsifier & Penetrant**

Product Description

KLEN 1809 is a highly concentrated grease cutting detergent formulated with the best wetting and penetrating agents especially for cleaning of cavities (on mechanical parts) or deep tanks where direct agitation is unavailable. Also suitable for maintenance of industrial areas such as workshops and garages where heavy grease and oil might be found.

Areas of Use

KLEN 1809 is ideal for cleaning sludge tanks and other various tanks on vessels at sea, mechanical workshop areas, car parks, automobile engines and parts, machinery, automobiles etc.

Special Features

- High flash point.
- Rinses clean with water. Will not form thick slime as with other solvent emulsifiers.
- Low toxicity once flushed with water.
- Wide range of applications. Safe for use on rubber, plastic, steel and painted surfaces.
- Highly concentrated for greater economy

Directions for Use

Normal cleaning- mop or spray ***KLEN 1809*** to soiled surface. Allow 5 mins for chemical action, agitate with brush if soil is heavily caked. High-pressure spray or hose off with water.

Soaking - dilute ***KLEN 1809*** with up to 8 parts kerosene, depending on soil. Parts should be soaked for about an hour and then thoroughly rinsed.

Tank cleaning - remove excess oil waste by heating, then flush with water. Soak with ***KLEN 1809*** diluted with 5 parts water, allow to emulsify, then drain. If heating (to max. of 60° C.), solution can be diluted further. Spray clean with water.

Precautions

Flammable liquid, keep away from direct heat. As with most chemical products, ingestion and eye contact is to be avoided. Wash hands thoroughly after use.

SAFETY DATA SHEET

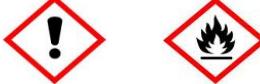
SECTION 1 - IDENTIFICATION

Product Identifier: KLEN 1809	Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist
Other means of identification: Solvent Emulsifier & Penetrant	
Date of SDS: 01 January 2026 Recommended use and restriction on use: KLEN 1809 is ideal for cleaning sludge tanks and other various tanks on vessels at sea, mechanical workshop areas, car parks, automobile engines and parts, machinery, automobiles etc.	Phone: (65) 6862 3388 Fax: (65) 6861 7575 Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249

SECTION 2 - HAZARDS IDENTIFICATION

GHS classification: Flammable liquid: Category 4; Skin irritation: Category 2;	Acute toxicity: Oral: Category 4; Eye irritation: Category 2
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GHS label elements: Pictogram:	Signal word: Warning
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Hazard statements:	H226: Flammable liquid. H315: Causes skin irritation. H320: Causes eye irritation.
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Precaution statements:	P102: Keep out of reach of children. P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P262: Do not get in eyes.
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SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Deodourized Kerosene	> 70.0 %	NA	8008-20-6	232-366-4
Cocodiethanolamide	< 3.0 %	CH ₃ (CH ₂) _n C(=O)N(CH ₂ CH ₂ OH) ₂	68603-42-9	271-659-0
Nonyl Phenol Ethoxylates	< 10.0 %	C ₃₃ H ₆₀ O ₁₀	26571-11-9	247-816-5
PEG 400 Mono-Oleate	< 6.0 %	C ₂₈ H ₅₄ O ₇	9004-96-0	224-806-9
Sorbitan Monolaurate	< 4.0 %	C ₁₈ H ₃₄ O ₆	1338-39-2	215-663-3

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 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: Dry chemical, carbon dioxide and foam.

Specific hazards arising from the chemical: Burning can produce carbon dioxide and/or carbon monoxide.

Unusual Fire/Explosion Hazards: Auto-ignition temperature 210° C.

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 substances should not be released into the environment (water, soil).

Methods and materials for containment and cleaning up: Stop spill at source. Eliminate all sources of ignition. Contain material, as necessary, with dike or barrier. Mop, shovel or absorb with inert material and place in sound containers. Rinse remaining residue with excess 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-using.

Conditions for safe storage, including any incompatibilities: Combustible material. Store in cool, dry, well-ventilated area at room temperature away from any possible source of ignition.

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: Normally ventilation is not required unless in confined area.	
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:	Amber coloured liquid with characteristic odour.
Solubility in water:	Dispersible
Boiling Point:	> 150 °C
Specific Gravity:	0.83 +/- 0.01g/cm ³
pH:	N.A
Flash Point (T.C.C.):	70 °C
	Flammable Limits - Upper: ~ 7.0% Lower: ~0.9 %
Vapour Pressure:	< 5 @ 20 °C (mm Hg)
Vapour Density:	~ 4.7 (Air = 1)
SECTION 10 - STABILITY AND REACTIVITY	
Reactivity/ In compatible materials:	Strong Oxidizers.
Chemical stability:	Stable under normal temperature and pressure.
Possibility of hazardous reaction:	Will not occur.
Condition to avoid:	Prevent possible source of ignition.
SECTION 11 – TOXICOLOGICAL INFORMATION	
Acute toxicity: Oral:	LD 50 (Rat) is > 5 gm/kg.
This product contains Petroleum Solvent that has a low order of acute and dermal toxicity. But small amounts aspirated into the lungs during ingestion/vomiting may cause mild to severe pulmonary injury and possibly death.	
SECTION 12 – ECOLOGICAL INFORMATION	
Persistence and degradability:	Product degrades readily by action of microorganism.
Bioaccumulative potential:	It is emulsifiable 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	
This material is non-regulated and no special requirement is necessary. HS Code: 34024990	
SECTION 15 – REGULATORY INFORMATION	
International regulation:	
Classification:	This product contains Petroleum Solvent that is classified as a flammable liquid under EC classification.
Risk phrases:	R10 Flammable. R36 Irritating to eyes.
Safety phrases:	S02 Keep out of reach of children. S16 Keep away from sources of ignition – No Smoking. S25 Avoid contact with eyes.
SECTION 16 – OTHER INFORMATION	
Hazard Rating: HMIS (Hazardous Materials Information System)	
HEALTH:	2
FLAMMABILITY:	2
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.