



better products
cleaner environment

KLEN AQ DETERGENT

Heavy Duty Liquid Detergent

Product Description

KLEN AQ DETERGENT is a highly concentrated heavy-duty liquid detergent used for main line washing of all levels of soiling. Formulated by using a selection of high-quality materials suitable for use on all kinds of textiles and at all temperature range. Exceptionally high performance achievable with each application, with no long-term effect of soil re-deposition and incrustation.

KLEN AQ DETERGENT is developed for thorough and quick removal of very stubborn soiling. Low-foaming property caters for optimum chemical and mechanical action to which laundry is subjected to. This combination of actions thus produces exceptionally high standards of cleaning results.

Properties

- Anti-soil re-deposition agents for trouble free
- Good wetting surfactants.
- Low in lather for ease of use, without fear of chemical spilling in washing machines.
- Contains special optical brighteners for exceptional whiteness on polyester / cotton fabrics.

Chemical Composition

- Does not contain Anionic Surfactants
- Greying Inhibitors
- Optical Brighteners
- Auxiliaries

Application

Add **KLEN AQ DETERGENT** as a main wash product in washing operations according to the dosage guidelines given. Washing time is usually between 8 to 15 minutes depending on the degree of soiling. The best operating wash temperature is between 50 to 75 degrees Celsius. For heavily soiled fabrics, e.g. pillowcases, it is recommended to add 1 to 2 ml per kilogram of dry wash of **KLEN EXTRA CLASSIC**.

Dosage

Light Soil	2 - 5 ml/kg of dry wash
Medium Soil	6 - 10 ml/kg of dry wash
Heavy Soil	11 + ml/kg of dry wash

Precaution

As with all chemical products, ingestion and eye contact is to be avoided. When handling product, normal work clothing covering arms and legs shall be worn.

Storage

Store in a cool and dry area.

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier: KLEN AQ DETERGENT	Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist
Other means of identification: Heavy Duty Liquid Detergent	
Date of SDS: 01 January 2026	Phone: (65) 6862 3388 Fax: 65) 6861 7575 Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249
Recommended use and restriction on use: KLEN AQ DETERGENT is developed for thorough and quick removal of very stubborn soiling. Formulated by using a selection of high-quality materials suitable for use on all kinds of textiles and at all temperature range.	

SECTION 2 - HAZARDS IDENTIFICATION

GHS classification: Acute toxicity: Category 4 Eyes irritation: Category 2,	Signal Words: Warning
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Hazard statements: H302: Harmful if swallowed.
H320: Causes eye irritation.

Precaution statements: P102: Keep out of reach of children.
P262: Do not get in eyes.

SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Isopropyl Alcohol	< 10.0 %	C3H8O	67-63-0	200-661-7
Nonyl Phenol Ethoxylate	< 30.0 %	C ₃₃ H ₆₀ O ₁₀	26571-11-9	247-816-5
Sodium Acrylic Acid Polymer	< 5.0 %	NA	37199-81-8	609-343-6
Sodium Hydroxide	< 1.0 %	NaOH	1310-73-2	215-185-5
Silicone Oil Emulsion	< 0.01 %	NA	63148-62-9	256-344-9
Water	> 60.0 %	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, 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 - ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment, and emergency measures: 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. Absorb spills 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: Keep product closed to prevent contamination. Store in cool, dry, ventilated area at room temperature. 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: No special requirements ventilation is recommended when vapors, mist, or dusts can be released.

Personal Protection: Use safety glasses / goggles if splashing is anticipated.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Odour:	Clear Liquid	
Solubility in water:	Complete.	
Boiling Point:	Not Applicable	
Specific Gravity:	1.02 +/- 0.01 g/cm ³	
PH (1 % Solution)	8.5 +/- 0.5	
Flash Point (T.C.C.):	None to Boiling	Flammable Limits - Upper: N. A Lower: N.A
Vapour Pressure:	Not Determine	
Vapour Density:	Not Determine	
SECTION 10 - STABILITY AND REACTIVITY		
Reactivity/ In compatible materials:	None.	
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 product may be harmful.	
Skin or eye irritation:	This product may cause mild irritation to eyes and/or skin on some individuals.	
SECTION 12 – ECOLOGICAL INFORMATION		
Toxicity:	Concentrated product if spill into fresh water may be harmful to fish and other aquatic organism.	
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 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: 34024290		
SECTION 15 – REGULATORY INFORMATION		
International regulation:		
Classification:	This product is not classified under EC Classification.	
Risk phrases:	R22	Harmful if swallowed.
	R36	Irritating to eyes.
Safety phrases:	S02	Keep out of reach of children.
	S25	Avoid contact with eyes
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.