



better products
cleaner environment

KLEN EXTRA **Liquid Laundry Emulsifier**

Product Description

KLEN EXTRA is a concentrated liquid laundry booster for high performance emulsification of fat, oil, grease stains etc, for institutional and commercial laundries. It is effective on all kinds of textiles, including silk and wool. Formulated as a neutral liquid, it is safe to use in wash operation and does not harm textiles.

KLEN EXTRA is added as a reinforcement chemical in the Prewash or Main wash operations for maximum stain removal.

Properties

- Ease of removal of grease, oil, and fatty stains.
- Low foaming for optimum washing.
- Effective in cold or hot applications.
- Refreshing after washing.

Chemical Composition

- Surfactant blends.
- Other Auxiliaries

Directions for Use

- Use ***KLEN EXTRA*** as a Prewash or Main wash in the washing cycle according to the dosage guidelines given.

Dosage

- * As an emulsifier : 2 – 4 ml / kg of dry wash
- * As a wetting agent : 0.3 – 1.5 ml / kg of dry wash

Precaution

As with all chemical products, avoid ingestion and eye contact is to be avoided. No special handling required.

Storage

Store in a cool area and protect from frost. Containers of unused product must be kept closed at all times to prevent contamination.


150024

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

KLENCO products are used in over 20 countries across Asia, the Middle East, Europe and Africa

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
Product Identifier: KLEN EXTRA		Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist		
Other means of identification: Liquid Laundry Emulsifier		Phone: (65) 6862 3388		
Date of SDS: 01 January 2024		Fax: (65) 6861 7575		
Recommended use and restriction on use: KLEN EXTRA is effective on all kinds of textiles, including silk and wool.		Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249		
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Category 4 Skin irritation: Category 2,				
GHS label elements: Pictogram:		Signal Words: 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 3 - COMPOSITION/ INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Nonyl Phenol Ethoxylate	> 80.0 %	C ₃₃ H ₆₀ O ₁₀	26571-11-9	247-816-5
Water	< 20.0 %	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:	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:	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: Stop spill at source. 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-use.				
Conditions for safe storage, including any incompatibilities: Store in cool, dry 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: None				
Appropriate engineering control measures: Normal ventilation is sufficient				
Personal Protection: Use protective equipment such as rubber/ PVC gloves, safety glasses / goggles and normal work clothing covering arms and legs if splashing is anticipated.				

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour:	Clear Liquid with characteristic odour.
Solubility in water:	Complete.
Boiling Point:	100 °C
Specific Gravity:	1.052 +/- 0.005 g/cm ³
PH:	7.0 +/- 0.5
Flash Point (T.C.C.):	None to Boiling
Flammable Limits - Upper:	N. A
Lower:	N.A
Vapour Pressure:	None
Vapour Density:	None
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:	LD 50 (rat): > 0.2 g/kg
Skin or eye irritation:	Contains surfactants that may cause mild irritation to eyes and skin of some individuals.
SECTION 12 – ECOLOGICAL INFORMATION	
Persistence and degradability:	Product degrades by action of microorganism after a period of time.
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 has not been allocated any 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.