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KLEN DC DETERGENT **Liquid Dry-Cleaning Detergent**

Product Description

KLEN DC DETERGENT is a concentrated liquid dry cleaning detergent formulated for high performance emulsification of fat, grease, oil stains and various water base stains. It is effective on all kinds of textiles, including silk and wool. Formulated as a liquid for easy usage, it is safe to use in wash operation and does not harm textiles.

KLEN EXTRA is added as a reinforcement chemical at use dosage of 2 ml per 100 litres of capacity of solvent in dry cleaning machine operations for maximum stain removal.

Properties

- Ease of removal of grease, oil and fatty stains.
- Effective in cold or hot application.

Chemical Composition

- Surfactant blends.
- Other Auxiliaries

Directions for Use

- Dose ***KLEN DC detergent*** into the solvent tank at 5 to 10 ml per 100 litres of solvent tank capacity of the dry-cleaning machine.


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.

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION				
Product Identifier: KLEN DC DETERGENT		Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist		
Other means of identification: Heavy Duty Detergent with Oxygen Bleach		Phone: (65) 6862 3388		
Date of SDS: 01 January 2024		Fax: (65) 6861 7575		
Recommended use and restriction on use: KLEN DC DETERGENT is effective on all kinds of textiles, including silk and wool. Formulated as a liquid for easy usage, it is safe to use in wash operation and does not harm textiles.		Email: info@klenco-asia.com Emergency contact: (65) 6862 3388 Ext 249		
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Category 4 Skin/ Eye irritation: Category 2,				
GHS label elements: Pictogram:		Signal Words: Warning		
				
Hazard statements:	H315: Causes skin irritation. H320: Causes eye irritation. H336: May cause dizziness.			
Precaution statements:	P102: Keep out of reach of children. P262: Do not get on skin. P280: Wear protective gloves/protective clothing/eye protection/face protection			
SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS				
Chemical Identification	Component & Composition	Chemical Formula	CAS NO.	EC NO.
Perchloroethylene	> 50.0 %	C2Cl4	127-18-4	204-825-9
Ethanolamine	< 5.0 %	C2H7NO	141-43-5	205-483-3
Nonyl Phenol Ethoxylate	< 20.0 %	C ₃₃ H ₆₀ O ₁₀	26571-11-9	247-816-5
Propylene Glycol	< 20.0 %	C3H8O2	57-55-6	200-338-0
Ethylene Glycol Butyl Ether	< 5.0 %	CH3(CH2)3OCH2CH2OH	111-76-2	203-905-0
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:	Only administer Adrenaline after careful consideration following Perchloroethylene overexposure. Increased sensitivity of the heart to Adrenaline may be caused by overexposure to Perchloroethylene.			
SECTION 5 – FIRE-FIGHTING MEASURES				
Suitable fire-extinguishing media:	Dry Chemical, Carbon dioxide and Foam.			
Specific hazards arising from the chemical:	At abnormally high temperatures, possible trace of phosgene or hydrogen chloride, 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, well-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:	Provide sufficient mechanical and/or local exhaust to keep exposure below TLV.
Personal Protection:	Use the approved organic type respirator in confine areas and Neoprene, Nitrile rubber or PVC gloves & chemical resistant safety glasses / goggles can be worn if splashing is anticipated.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour:	Clear amber liquid with characteristic odour
Solubility in water:	Less than 3%.
Boiling Point:	> 110 °C
Specific Gravity:	1.30 +/- 0.01 g/cm ³
PH:	Not Applicable.
Flash Point (T.C.C.):	> 100 °C 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:	Strong oxidizers and alkalis, reactive metals (aluminum, zinc).
Chemical stability:	Stable under normal temperature and pressure.
Possibility of hazardous reaction:	Will not occur.
Condition to avoid:	None.
SECTION 11 – TOXICOLOGICAL INFORMATION	
Acute toxicity: Oral:	LD 50 (Rat) = 8850 mg/kg
Skin or eye irritation:	This product may cause dizziness if too much is inhaled. Cause irritation in eyes and skin of some individuals.
SECTION 12 – ECOLOGICAL INFORMATION	
Persistence and degradability:	Product should be disposed of by an approve disposal authority.
Bioaccumulative potential:	Appreciable amounts will be lost through evaporation due to the products volatility.
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: 34021390	
SECTION 15 – REGULATORY INFORMATION	
International regulation:	
Classification:	This product is classified as a marine pollutant under EC classification.
Risk phrases:	R36/38 Irritating to eyes and skin.
Safety phrases:	S02 Keep out of reach of children. S24/25 Avoid any inhalation, contact with skin and eyes. S36/37 Wear suitable protective clothing and gloves.
SECTION 16 – OTHER INFORMATION	
Hazard Rating: HMIS (Hazardous Materials Information System)	
HEALTH:	2
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.