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cleaner environment

REVIVE

Acidic Tile Rejuvenator

Product Description

REVIVE is a powerful, fast acting cleaner containing a synergistic blend of surfactants and acids that penetrates below the surface to lift dirt, soil, and grease.

REVIVE is highly effective to remove grout smears, cement haze, hard water stains, lime deposits, rust stains, fungus, soap scum and efflorescence. For use on unglazed ceramic tile, brick, masonry, unpolished natural stone and concrete surfaces do not harm by acidic solutions.

Special Features

- Concentrated for efficient, heavy-duty cleaning.
- Safer to use than most other acidic cleaners.
- Chemically dissolves cement base residue and haze.
- Deep cleaning action for lifting of embedded stains.

Directions for use

Rubber gloves and eyes protection should be worn. If chemical comes in contact with skin, wash immediately with soap and water.

Test a small area with a 24-hour waiting period to determine the suitability of use and if results are satisfactory before actual application.

Pre-wet surface with water before applying **REVIVE**. Depending on the cleaning task, you may dilute by mixing with up to 20 parts of water. When diluting, always add acid cleaner to water and not water to acid.

Apply solution and allow it to sit 2-5 mins, agitate with stiff nylon or natural bristle brush or scrub pad to loosen haze, dirt, or soil. Do not allow solution to dry on the surface.

Use clean mop to remove the dirty solution. Rinse thoroughly with clean water to ensure removal of cleaning solution. If a sealer or impregnator coating is to be applied, neutralize the surface with a product such as **POWER PLUS**, followed by water, then allow the surface to thoroughly dry before applying.

Note: Not to be used on marble, terrazzo and other types of smooth polished surfaces.

Precautions

This product is acidic. Avoid ingestion, inhalation, skin, and eye contact. Wear rubber gloves and protective clothing when handling, do not use bare hands. If ingested, consume large amounts of cold water to dilute. If product contacts skin or eyes, flush thoroughly with cold water and seek medical help as soon as possible. Allow for adequate ventilation when using. Store in a cool place and keep container sealed.

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KLENCO (SINGAPORE) PTE LTD

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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: REVIVE		Supplier: Klenco (Singapore) Pte Ltd. Address: 18 Gul Crescent, Singapore 629527 Department: Chemical Person in Charge: Chemist		
Other means of identification: Acidic Tile Rejuvenator		Phone: (65) 6862 3388		
Date of SDS: 01 January 2024		Fax: (65) 6861 7575		
Recommended use and restriction on use: For use on unglazed ceramic tile, brick, masonry, unpolished natural stone and concrete surfaces do not harm by acidic solutions		Email: www.klenco-asia.com Emergency contact: (65) 6862 3388		
SECTION 2 - HAZARDS IDENTIFICATION				
GHS classification: Acute toxicity: Category 3 Skin corrosion: Category 1; Serious eye damage: Category 1				
GHS label elements: Pictogram:		Signal Words: Danger		
				
Hazard statements: H301: Toxic if swallowed. H314: Causes skin burns and eye damage.				
Precaution statements: P201: Obtain special instructions before use. P233: Keep container tightly closed. 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.
Phosphoric Acid	< 25.0 %	H3PO4	7664-38-2	231-633-2
Alkyl Dimethylamine Oxide	< 3.0 %	C ₁₅ H ₃₃ NO	70592-80-2	274-687-2
Nonyl Phenol Ethoxylate	< 3.0 %	C ₃₃ H ₆₀ O ₁₀	26571-11-9	247-816-5
Water	> 75.0 %	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, fog and alcohol foam.			
Specific hazards arising from the chemical:	Burning can produce carbon dioxide, carbon monoxide and traces of phosphoric oxides.			
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 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. Provide optimum ventilation. Stop discharge, if safe to do so. Cover spills with absorbent clay, sawdust, inert material, soda ash, slaked lime 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: This product is a corrosive liquid. Store in cool, dry, well-ventilated area at room temperature. Keep away from strong alkalis and oxidizing agents especially chlorine releasing agents. 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:	Local exhaust ventilation usually required, when vapours, mist, or dusts can be released.
Personal Protection:	Use the protective equipment such as rubber/PVC gloves, safety glasses/goggles.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Odour:	Clear liquid with characteristic odour.
Solubility in water:	Complete.
Boiling Point:	100 °C
Specific Gravity:	1.170 +/- 0.01 g/cm ³
PH:	< 4.0
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:	Strong alkalis and oxidizing materials.
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 fatal.
Skin or eye irritation:	This product contains acidic material that will cause burns and intense irritation to eyes and/or skin.
SECTION 12 – ECOLOGICAL INFORMATION	
Toxicity:	Concentrations with a pH value of 6.0 or lower 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 micro-organism.
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	
UN No. 1760 Corrosive liquid (contains Phosphoric acid) / Packing group: III / Hazard class:8 HS Code: 34024290	
SECTION 15 – REGULATORY INFORMATION	
International regulation:	Classification: This product phosphoric acid as an ingredient that is classified as corrosive under EC Classification.
Risk phrases:	R28 Very toxic if swallowed. R34 Causes burns.
Safety phrases:	S07 Keep container tightly closed. S18 Handle and open container with care. S50 Do not mix with oxidizing materials.
SECTION 16 – OTHER INFORMATION	
Hazard Rating: HMIS (Hazardous Materials Information System)	
HEALTH: 2	
FLAMMABILITY: 0	
REACTIVITY: 1	
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.