



better products for a cleaner environment

# **POWER BRITE**

## **General Acidic Cleaner**

### **Product Description**

**POWER BRITE** is a medium strength acidic cleaner with surfactants for removal of oxides, rust stains, fungus and light oil deposits from concrete, mosaic, and quarry tiles on floors and walls.

Applied properly and with care, **POWER BRITE** can also be used to clean and brighten certain aluminium and stainless steel surfaces.

### **Special Features**

- Efficient and economical removal of rust, oxides, deposits and most other heavy stains.
- Suited for more regular usage than most acidic cleaners, care must still be exercised.

### **Directions for use**

- Dilute with 3 to 8 parts of cold water, depending on amount of oxide film, grease and soil to be cleaned from the surface. Add product to water and not vice-versa.
- Apply by mop, brush or acid-resistant sprayer. Start with a small central area of total surface and work outwards. Let solution act on the surface for 1 to 2 minutes then agitate briskly with a brush or scrubbing machine. Flush thoroughly with water. Do not let solution dry on the surface.
- Renovated surface should be regularly maintained with an alkaline detergent, such as **EASY CLEAN** or **ACTION 130**.
- **POWER BRITE** may be used to clean and brighten certain grades of stainless steel and aluminium. Consult your KLENCO representative or distributor for usage directions. Incorrect use will result in damage to the surface.

*Note: **POWER BRITE** will etch marble, terrazzo and other types of smooth or polished surfaces. If unsure about suitability of **POWER BRITE**, test on an inconspicuous spot to ascertain if surface is adversely affected.*

### **Precautions**

This product is acidic. Avoid ingestion, inhalation, skin and eye contact. Do not use bare hands to handle this product, wear rubber gloves and protective clothing when handling. 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.

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

Singapore • China • Malaysia • Thailand • ASEAN • South Asia

# MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
<b>Product Name:</b> POWER BRITE		<b>Distributor:</b> KLENCO (SINGAPORE) PTE LTD			
<b>Description:</b> General Acidic Cleaner		<b>Address:</b> 18 Gul Crescent, Singapore 629527			
<b>Date of MSDS:</b> September 2004		<b>Tel:</b> (65) 6862 3388			
SECTION 2 - INFORMATION ON INGREDIENTS					
Chemical Name/Common Name	%	TLV	Chemical Name/Common Name	%	TLV
Phosphoric acid	< 20.0	1.0mg/m <sup>3</sup>	Hydrofluoric acid	< 1.9	1.0mg/m <sup>3</sup>
Non-hazardous ingredients	< 80				
SECTION 3 - HAZARDS IDENTIFICATION					
<b>Emergency Overview:</b> Corrosive material and will cause burns of skin and eyes on contact. Ingestion will cause burns of mucous membrane and internal damage, possibly death. Corneal damage likely if contact with eyes is prolonged. Inhalation of fumes may cause irritation to upper respiratory tract and lung. Do not swallow. See sections 3, 5 and 6.					
<b>Primary Routes of Exposure:</b> Skin and eyes					
<b>Eye Contact:</b>		Will cause damage to corneal on prolong contact.			
<b>Skin Contact:</b>		Incidental contact will cause burns and intense irritation.			
<b>Inhalation:</b>		May cause irritation to upper respiratory tract and lung.			
<b>Ingestion:</b>		Will cause burns to mucous membrane and internal damage and possibly death.			
<b>Target Organs/Chronic Effects</b> None known.					
<b>Conditions Aggravated By Exposure:</b> Exposure to this product is not expected to contribute, worsen or aggravate any pre-existing medical conditions.					
SECTION 4 – FIRST AID MEASURES					
<b>Eye Contact:</b>		Flush with cool water for at least 15 minutes. Then consult a physician immediately.			
<b>Skin:</b>		Wash with large amounts of soap and water. If irritation persists, consult a physician.			
<b>Ingestion:</b>		Induce vomiting. Dilute by drinking water. Call a physician immediately.			
<b>Inhalation:</b>		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.			
<b>Notes to Physicians:</b> Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.					
SECTION 5 – FIRE FIGHTING METHODS					
<b>Flash Point (T.C.C.):</b> None to boiling		<b>Flammable Limits - Upper:</b> NA <b>Lower:</b> NA			
<b>Extinguishing Media:</b> Water, dry chemical, fog and alcohol foam.					
<b>Special Fire Fighting Procedure:</b> Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment					
<b>Unusual Fire/Explosion Hazards:</b> None					
<b>Hazardous Decomposition Products:</b> Burning can produce carbon dioxide, carbon monoxide and traces of phosphoric oxides.					
SECTION 6 - ACCIDENTAL RELEASE MEASURES					
<b>Evacuation:</b> May be required if handling large amounts of release.					
<b>Containment:</b> 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.					
<b>Collection And Disposal:</b> Stop discharge, if safe to do so. Use proper protective equipment. 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					
<b>Storage Conditions:</b> 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.					
<b>Transfer:</b>		Handle all containers carefully. Do not throw or roll on the ground to prevent damage to containers. No other special precautions are needed for this product as it is a mixture. Follow good manufacturing and handling practices.			
<b>Personal Hygiene:</b> Wash thoroughly after handling, especially before eating and drinking, Wash contaminated goggles, face-shield, and gloves. Launder contaminated clothing before re-use.					
<b>Empty Container Precautions:</b> Do not re-use empty container for food, clothing or products for human or animal consumption or where skin contact can occur.					

<b>SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
<b>Exposure Guidelines:</b>	<b>ACGIH - TLV:</b> Provide suitable personal protective equipment and/or ventilation to maintain exposure below TLV levels.
<b>Engineering Controls/Ventilation:</b>	Local exhaust ventilation is recommended when vapours, mist, or dusts can be released.
<b>Respiratory Protection:</b>	Normally not required.
<b>Eye Protection:</b>	Safety glasses / goggles.
<b>Hand Protection:</b>	Rubber / PVC gloves
<b>Other Protective Clothing:</b>	Normal work clothing covering arms and legs.
<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance &amp; Odour:</b>	Clear amber liquid with suffocating odour.
<b>Solubility in water:</b>	Complete.
<b>Boiling Point:</b>	100 °C
<b>Specific Gravity:</b>	1.090 +/- 0.005 g/cm <sup>3</sup>
<b>PH:</b>	1.5 +/- 0.5
<b>Vapour Pressure:</b>	Not determined
<b>Vapour Density:</b>	Not determined
<b>SECTION 10 - STABILITY AND REACTIVITY</b>	
<b>Chemical Stability:</b>	Stable under normal conditions of use.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Not applicable.
<b>Incompatibility With Other Materials:</b>	Strong alkalis and oxidizing materials.
<b>SECTION 11 - TOXICITY INFORMATION</b>	
<b>Components:</b>	This product contains acidic material that will cause burns and intense irritation to eyes and/or skin. Ingestion of high amount of product is fatal.
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>	
<b>Environmental Fate and Distribution:</b>	It is soluble in water and does not bio-accumulate.
<b>Persistence and Degradation:</b>	Product degrades readily by reaction of carbon dioxide in the air as well as decomposition by microorganism.
<b>Toxicity:</b>	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.
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>	
<b>Disposal:</b>	Dispose in an approved waste facility according to local regulations.
<b>General Recommendations:</b>	Of the methods of disposal currently available, 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.
<b>SECTION 14 - TRANSPORT INFORMATION</b>	
This material is non-regulated and no special requirement is necessary.	
<b>SECTION 15 - REGULATORY INFORMATION</b>	
<b>Classification:</b>	This product contains hydrofluoric acid as an ingredient that is classified as corrosive under EC Classification.
<b>Ozone Depleting Chemicals:</b>	No regulated ingredients.
<b>SECTION 16 - OTHER INFORMATION</b>	
<b>Hazard Rating:</b>	HMIS (Hazardous Materials Information System)
<b>HEALTH:</b>	2
<b>FLAMMABILITY:</b>	0
<b>REACTIVITY:</b>	1
0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Extreme	

**NOTICE:** MSDS 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.