


<b>MATERIAL SAFETY DATA SHEET</b> according to EU Directive 93/112/EC		
<b>BRICK CLEANER</b>		
Version: 2	Print date: 11.2.13	

**1. Identification of Substance/Preparation and Company**

Product Name	Brick Cleaner
Company	Refurb (Holdings) Ltd. t/a DIY Refurb 15 & 17 Church Street Stourbridge West Midlands DY8 1LU
Telephone	0800 1114898
Email	sales@diyrefurb.com

**2. Composition / Information on ingredients**

Alternative names:	Aqueous hydrogen chloride 28/36% Hydrochloric acid Muriatic acid Hydrochloric acid solution
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HAZARDOUS INGREDIANT (S)	CAS No.	%(w/w)	SYMBOL	R PHRASES
Hydrogen chloride Anhydrous	007647-01-0	28-36	c	R34 R37

**3. Hazards identification**



**Main hazard: Causes burns. Serious risk of damage to eyes. Irritating to respiratory system. High atmospheric concentrations may lead to pulmonary oedema.**

**4. First aid measures**

CONTACT WITH SKIN:	Wash contact areas immediately with plenty of water for at least for 10 min. Discard/laundry contaminated clothing Seek medical attention if irritation persists.
CONTACT WITH EYES:	SPEED IS ESSENTIAL. Immediately irrigate with eye wash solution or clean water, holding the eyelids apart. For at least 10 minutes.
INGESTION:	Wash out mouth with water and give 200-300 ml (half a pint) of Water to drink. Do not induce vomiting.
INHALATION:	Remove patient to fresh air. Keep warm and at rest. Seek medical advice. Apply artificial respiration if breathing has ceased or shows signs of failing. Do not us mouth-to-mouth resuscitation.
FURTHER MEDICAL TREATMENT	Following exposure the patient should be kept under medical review for at least 48hours as delayed pulmonary oedema may develop.

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**5. Fire fighting measures**

NON-COMBUSTIBLE: Containers may burst if overheated.  
 EXTINGUISHER MEDIA: As appropriate for surrounding fire. Water spray should be used to cool containers.

FIRE FIGHTING  
 PROTECTIVE EQUIPMENT: A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

**6. Accidental release measures**

Ensure full personal protection (including respiratory protection) during removal of spillages. Spillages or uncontrolled discharging into watercourses, drains or sewers must be immediately altered to the National Rivers Authority or other appropriate regulatory body.

SMALL SPILLAGES: Drench spillages with water and wash to drain.  
 LARGE SPILLAGES: Spillages should be neutralized by use of lime or lime slurry followed by water washing.

**7. Handling and storage**

HANDLING: Atmospheric levels should be controlled in compliance with the occupational exposure limit. Avoid contact with skin and eyes. Do not breath fumes. Provide adequate ventilation. Keep away from common metals, oxidizing agents, alkalis.

STORAGE: Bulk quantities should be stored in rubber lined steel or suitable plastic equipment. Keep smaller quantities in suitable plastic or glass containers. Keep away from heat and sources of ignition.

**8. Exposure controls / personal protection**

Wear suitable protective clothing. Gloves and eye/face protection. Wear suitable respiratory protective Equipment.

**OCCUPATIONAL EXPOSURE LIMITS**

HAZARDOUS INGREDIENT(S)	LTEL 8HR TWO		STEL		TIME
	PPM	mg/m <sup>3</sup>	PPM	mg/m <sup>3</sup>	mins
Hydrogen Chloride Anhydrous	-	-	5	7	10 OES

**9. Physical and chemical properties****PHYSICAL AND CHEMICAL PROPERTIES**

FORM: Fuming liquid.  
 COLOUR: Almost colorless to pale yellow  
 ODOUR: Characteristic pungent  
 BOILING POINT (DEG C): 98 (28%HC1) 91 (36%HC1)  
 VAPOUR PRESSURE: 11 (28%) 115 (36%)  
 SOLUBILITY (WATER): soluble  
 FREEZING POINT (DEG C): -63 to -27 (28-36%)  
 SPECIFIC GRAVITY: 1.14 (28%) 1.18 (36%)

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**10. Stability and reactivity****HAZARDOUS REACTIONS:**

Attacks most common metals liberating hydrogen, which can form explosive mixtures with air. Can react violently if in contact with oxidizing agents liberating chlorine. Exothermic reaction with alkalis.

**HAZARDOUS  
DECOMPOSITION  
PRODUCT(S):**

Hydrogen chloride.

**11. Toxicological information****INHALATION:**

Mist or vapor will cause irritation to the upper respiratory tract. Coughing and choking sensation. Concentrations of 50-100ppm are barely tolerated for up to 1 hour. Higher concentrations may cause corrosion of the respiratory tract. Fluid build up on the lung (pulmonary oedema) may occur up to 48 hours after exposure and could prove fatal.

**SKIN:**

Causes burns.

**EYES:**

Causes burns. Risk of serious damage to eyes. May cause permanent impairment of vision.

**INGESTION:**

Will immediately cause severe corrosion of and damage to the gastrointestinal tract.

**LONG TERM EXPOSURE:**

Repeated exposure to low levels may produce corrosion of the teeth and ulceration of the nasal septum and gums.

**12. Ecological information****ENVIRONMENTAL FATE  
AND DISTRIBUTION:**

High tonnage material used in partially contained systems. Liquid with high volatility. The product is soluble in water. The product does not bioaccumulate. The product is predicted to have high mobility in soil.

**TOXICITY:**


Large discharge may contribute to the acidification of water and be fatal to fish and other aquatic life. Can cause damage to vegetation. Can cause severe damage to aquatic plants.

**EFFECT ON EFFLUENT  
TREATMENT:**

Large discharge may contribute to the acidification of effluent treatment systems and will injure sewage treatment organisms.

**13. Disposal considerations**

Disposal should be in accordance with local, state or national legislation.

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**14. Transport information**

UN No.	:1789
UN PACK. Group	:11
AIR	
ICAO/IATA CLASS	
-PRIMARY	:8
UN Packing Group Air	:11
ROAD/RAIL	
ADR/RID CLASS	
-PRIMARY	:8
UN Packing Group Sea	:11
ROAD/RAIL	
ADR/RID CLASS	:8
ADR/RID ITEM No	:5 (b)
ADR SIN	;1789

**15. Regulatory information**

**Read the Label before purchase and use.**

EEC CLASSIFICATION:	Corrosive
HAZARD SYMBOL:	C
RISK PHRASES:	R34 Causes burns R37 Irritating to respiratory system
SAFETY PHRASES:	S2 Keep out of reach of children S26 In case of contact with eyes, rinse immediately with plenty of Clean water and seek medical advice.

**16. Other Information**

This data sheet was prepared in accordance with directive 91/155/EEC.  
Use: Extensive use in the metal. Chemical, petroleum and food industries.