



Jangro Limited
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JANGRO BA090-5

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PRODUCT SAFETY DATA SHEET

1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Product Name: JANGRO GENERAL ACID CLEANER
Applications: Heavy Duty, Acidic Descaling Cleaner
Supplier: Jangro Limited, as above

Emergency Contact and Times:

01772 318 818 Between: 8.30am and 4.45pm Mon -Fri

2 HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.

CLASSIFICATION: Xi; R36/37/38

3 INFORMATION ON INGREDIENTS

Ingredient Name	EC No.	CAS No.	Content	Classification
Hydrochloric Acid...%	231-595-7	7647-01-0	10-20%	C;R34 Xi;R37
Hydrogen Chloride	231-595-7	7647-01-0	0-1%	T;R23 C;R35

The full text for all R-phrases are shown in section 16.

4 FIRST AID MEASURES

Eye Contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing

Ingestion: DO NOT INDUCE VOMITING! Drink a few glasses of water or milk. Get medical attention.

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

5 FIRE FIGHTING MEASURES

Extinguishing Media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Specific Hazards: By heating and fire, harmful vapours/gases may be formed.

Protective Measures in Fire: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes. Avoid inhaling vapour. Avoid contact with skin.

Environmental Precautions: Spillages or uncontrolled discharge into watercourses must be IMMEDIATELY alerted to The Environment Agency or other appropriate regulatory body.

Spillage Clean Up Methods: Small quantities may be flushed to drains with plenty of water. Large spill: Absorb in vermiculite, dry sand or earth and place into containers. Send for disposal as special waste.

7 HANDLING AND STORAGE

Usage Precautions: Avoid contact with skin and eyes. Avoid inhalation of vapours. DO NOT mix with other chemicals.

Storage Precautions: Store at moderate temperatures in dry, well ventilated area. Keep in original container. Store away from: Oxidising materials

8 PERSONAL PROTECTION/EXPOSURE CONTROLS

Name	Std	LT - ppm	LT – mg/m3	ST - ppm	ST – mg/m3
Hydrogen Chloride	WEL	1 ppm	2 mg/m3	5 ppm	8 mg/m3

INGREDIENT COMMENTS: WEL = Workplace Exposure Limits for COSHH assessments in the UK
ST = Short-Term Exposure Limit (15 minutes) & LT = Long-Term Exposure Limit (8 hours)

Engineering Measures: Must not be handled in confined space without sufficient ventilation.
Respiratory Equipment: Respiratory protection not required.
Hand Protection: For prolonged or repeated skin contact use suitable protective gloves (household rubber gloves)
Eye Protection: Eye protection recommended.
Other Protection: Wear appropriate clothing to prevent any possibility of skin contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Odour: Characteristic Hydrochloric Acid
Solubility: Soluble in water
Boiling Pt. (°C): 102
Specific Gravity (Water=1): 1.103 @ 20 °C
Flash Pt. (°C): Boils without flashing
Melting Point: (°C): -2
pH-Value, Conc: 0
Colour: Clear Straw

10 STABILITY AND REACTIVITY

Stability: No particular stability concerns.
Materials to Avoid: Concentrated alkaline materials. Chlorine releasing materials will liberate toxic chlorine gas.

11 TOXICOLOGICAL INFORMATION

Toxicological Information: Refer to section 2
Other Health Effects: Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

12 ECOLOGICAL INFORMATION

Ecotoxicity: Potentially hazardous due to the acidity of the product.
Bio Accumulation: The product does not contain any substances expected to be bioaccumulating.
Degradability: This product, at use dilutions, is readily broken down in biological effluent treatment plants.

13 DISPOSAL CONSIDERATIONS

Disposal Method: Discharge used solutions to drain. Small amounts (less than 5 litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal by approved waste contractor. Consign empty container to normal waste.

14 TRANSPORT INFORMATION

Label for Conveyance:



Proper Shipping Name 1:	Hydrochloric Acid 19% solution	ADR Class:	Class 8: Corrosive substances
UN No Road:	1789	RID CLASS NO:	Class 8: Corrosive substances
ADR PACK GR:	II	UN No Sea:	1789
RID PACK GR:	II	IMDG PACK GR:	II
IMDG Class:	Class 8: Corrosive substances	UN No Air:	1789
Marine Pollutant:	No.	AIR PACK GR:	II
Air Class:	Class 8: Corrosive substances		

15 REGULATORY INFORMATION

Label for Supply:



IRRITANT

Risk Phrases:	R-36/37/38	Irritating to eyes, respiratory system and skin.
Safety Phrases:	S-2	Keep out of reach of children.
	S-24/25	Avoid contact with skin and eyes.
	S-26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S-46	If swallowed seek medical advice immediately and show this container label.
	S-50A	Do not mix with other chemicals especially chlorine releasing bleaches as toxic gas will be evolved.

Environmental Listings:	Hazardous Waste (England and Wales) Regulations
EU Directives:	Systems of specific information relating to Dangerous Preparation. 2001/58/EC As amended by Directive 93/112/EC and 2001/58/EC and 2006/8/EC
Statutory Instruments:	Chemicals (Hazards information and packaging) regulations. 2008
Approved Code of Practice:	The compilation of safety data sheets L130
Guidance Notes:	Workplace Exposure Limits EH40. As amended in 2005. Approved guide to the classification and labelling of substances and preparations dangerous for supply. L100.

16 OTHER INFORMATION

Information Sources: Approved Supply List – HSC (Health and Safety Commission)
Material Safety Data Sheet, Misc. manufacturers

Risk Phrases in full:	R23	Toxic by inhalation
	R34	Causes burns
	R35	Causes severe burns
	R37	Irritating to respiratory system



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GENERAL ACID CLEANER

Description

Powerful, heavy duty, acid based cleaner and descaler. Ideal for removing mortar, plaster and rust from brickwork, stone and quarry tiles. It is also suitable for removing moss, algae and heavy soiling from patios and paving stones. Recommended for cleaning and etching concrete floors.

Features and Benefits

- Highly concentrated powerful cleaner and descaler
- Contains corrosion inhibitors
- Removes heavy deposits of limescale and rust from porcelain toilets
- Ideal for cleaning patio paving stones

How to Use

BRICKWORK, CONCRETE FLOOR AND PATIOS:

Wet surface with clean cold water. Apply undiluted. Allow product a few minutes to react. Agitate with brush. Hose down with clean water.

USE UNDILUTED FOR STUBBORN STAINS

Not recommended for use on stainless-steel and non-ferrous metals

Composition

Contains a blend of non-ionic surfactant, hydrochloric acid and corrosion inhibitors

Typical Product Data

Appearance:	Thin clear liquid
Odour:	Hydrochloric acid
Specific Gravity (20°C):	1.103
Colour:	Pale Straw
pH undiluted:	N/A
pH diluted 1:4:	0.2
Shelf Life unopened:	Not less than 3 years

Storage

Store in original sealed container and protect from extremes of temperature

Biodegradability

All surfactants used in Jangro products comply with the European Regulations concerning Biodegradability and protection of the environment