



## SAFETY DATA SHEET

### Jangro - GENERAL ACID CLEANER

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name Jangro - GENERAL ACID CLEANER  
 Product number A076 JA  
 Internal identification BA090-5

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Heavy Duty, Acidic Descaling Cleaner.

##### 1.3. Details of the supplier of the safety data sheet

###### Supplier

Jangro Limited  
 Jangro House  
 Worsley Road  
 Farnworth  
 Bolton. UK  
 BL4 9LU  
 TeL: 01204 795 955  
 Fax: 01204 579 499  
 enquiries@jangrohq.net

##### 1.4. Emergency telephone number

Emergency telephone 01772 318 818 - 8.30am to 4.45pm - Mon to Fri

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

Physical hazards Not Classified  
 Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335  
 Environmental hazards Not Classified

##### 2.2. Label elements

###### Pictogram



###### Signal word

Danger

###### Hazard statements

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.

## Jangro - GENERAL ACID CLEANER

<b>Precautionary statements</b>	P102 Keep out of reach of children.
	P261 Avoid breathing vapours.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P301 IF SWALLOWED:
	P313 Get medical advice/ attention.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P315 Get immediate medical advice/ attention.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P332+P313 If skin irritation occurs: Get medical advice/ attention.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313 If eye irritation persists: Get medical advice/ attention.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container in accordance with local regulations.	

**Contains** HYDROCHLORIC ACID ...%

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>HYDROCHLORIC ACID ...%</b>	<b>15-20%</b>
CAS number: 7647-01-0	EC number: 231-595-7
Spec Conc Limits :- Skin Corr. 1B (H314) ≥ 25%, Skin Irrit. 2 (H315) >10% <25%, Eye Irrit. 2 (H319) >10% <25%, STOT SE 3 (H335) ≥ 10%	
<b>Classification</b>	
Met. Corr. 1 - H290	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
<b>C9-11 ALCOHOL ETHOXYLATE (6.5 EO)</b>	<b>0.1-1%</b>
CAS number: 68439-45-2	
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Give plenty of water to drink. Get medical attention.
<b>Skin contact</b>	Wash with plenty of water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse with water. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

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### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Skin irritation. Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause temporary eye irritation. Prolonged contact may cause redness and/or tearing.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours.
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### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	Avoid inhalation of vapours. Wear protective clothing, gloves, eye and face protection. DO NOT mix with other chemicals.
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### 7.2. Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Keep only in the original container in a cool, well-ventilated place. Store away from the following materials: Oxidising materials. (eg Hypochlorite / Bleach)
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### 7.3. Specific end use(s)

## Jangro - GENERAL ACID CLEANER

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
<b>Usage description</b>	See Product Information Sheet & Label for detailed use of this product.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### HYDROCHLORIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m<sup>3</sup> gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m<sup>3</sup> gas and aerosol mists

##### HYDROGEN CHLORIDE

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

##### Protective equipment



<b>Appropriate engineering controls</b>	This product must not be handled in a confined space without adequate ventilation.
<b>Eye/face protection</b>	Wear eye protection.
<b>Hand protection</b>	Wear protective gloves. (Household rubber gloves.)
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Respiratory protection</b>	Respiratory protection not required.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Clear. Straw.
<b>Odour</b>	Characteristic. Hydrochloric acid.
<b>pH</b>	pH (concentrated solution): 0
<b>Melting point</b>	-2°C
<b>Initial boiling point and range</b>	102°C @ 760 mm Hg
<b>Flash point</b>	Boils without flashing.
<b>Relative density</b>	1.100 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.

#### 9.2. Other information

<b>Other information</b>	None.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

## Jangro - GENERAL ACID CLEANER

**Reactivity** Reacts with alkalis and generates heat.

### 10.2. Chemical stability

**Stability** No particular stability concerns.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** See sections 10.1, 10.4 & 10.5

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** Strong alkalis. Chlorine releasing materials will liberate toxic chlorine gas.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

**Other health effects** Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.

## SECTION 12: Ecological Information

**Ecotoxicity** The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

### 12.1. Toxicity

**Toxicity** We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

### 12.2. Persistence and degradability

**Persistence and degradability** This product, at use dilutions, is readily broken down in biological effluent treatment plants.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

**Mobility** Not known.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not known.

## SECTION 13: Disposal considerations

## Jangro - GENERAL ACID CLEANER

### 13.1. Waste treatment methods

**Disposal methods** 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.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID) 1789

UN No. (IMDG) 1789

UN No. (ICAO) 1789

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) HYDROCHLORIC ACID 19% SOLUTION

Proper shipping name (IMDG) HYDROCHLORIC ACID 19% SOLUTION

Proper shipping name (ICAO) HYDROCHLORIC ACID 19% SOLUTION

#### 14.3. Transport hazard class(es)

ADR/RID class Class 8 : Corrosive Substances.

ADR/RID label 8

IMDG class Class 8: Corrosive substances.

ICAO class/division Class 8: Corrosive substances.

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS F-A, S-B

Tunnel restriction code (E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant. for a packaged product.

Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

## Jangro - GENERAL ACID CLEANER

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 2015/830 (which amends Regulation (EC) No 453/2010 & 1907/2006).

The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Ingredients are listed with classification under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

## SECTION 16: Other information

#### Abbreviations and acronyms used in the safety data sheet

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Dangerous Goods.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

GHS: Globally Harmonized System.

Spec Conc Limits = Specific Concentration Limits.

#### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity

Eye Dam. = Serious eye damage

Eye Irrit. = Eye irritation

Met. Corr. = Corrosive to metals

Skin Corr. = Skin corrosion

Skin Irrit. = Skin irritation

STOT SE = Specific target organ toxicity-single exposure

#### Key literature references and sources for data

Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database.

#### Classification procedures according to Regulation (EC) 1272/2008

Calculation Method.

#### Revision comments

Safety Data Sheet amended in accordance with REACH Commission Regulation (EU) No 2015/830 amendment. (Changes to Sections 2,3,15&16)

#### Revision date

01/08/2017

#### Revision

6

#### SDS status

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Hazard Statements relating to this Product see Section 2.

#### Hazard statements in full

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.