



Jangro Limited  
James House  
Worsley Road  
Farnworth  
Bolton  
BL4 9NL

Tel. 0845 458 5223

**JANGRO BB070**

Revision April 2011

## PRODUCT SAFETY DATA SHEET

### 1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Product Name: JANGRO DISHWASH DETERGENT FOR HARD WATER  
Applications: Alkaline liquid detergent for dish washing machines  
Supplier: Jangro Limited, as above  
Email: centraloffice@jangrohq.net

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

### 2 HAZARDS IDENTIFICATION

Causes severe burns  
Classification (1999/45): C;R35

### 3 INFORMATION ON INGREDIENTS

Ingredient Name	EC No.	CAS No.	Content	Classification
Sodium Hydroxide	215-185-5	1310-73-2	10- 20%	C; R35
Amino Trimethyl Phosphonic Acid Penta Sodium Salt			1-5%	Xi; R36/38

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. Get medical attention immediately. Continue to rinse.  
Skin Contact: Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.  
Ingestion: DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink a few glasses of water or milk. Get medical attention immediately!  
Inhalation: Not relevant. Inhalation unlikely.

### 5 FIRE FIGHTING MEASURES

Extinguishing Media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.  
Specific Hazards: When heated and in case of 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: For personal protection, see section 8.  
Environmental Precautions: Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.  
Spillage Clean Up Methods: Small quantities may be flushed to drains with plenty of water. Large spillages: Pick up with vacuum or absorbent solid, store in closed container for disposal.

**7 HANDLING AND STORAGE**

Usage Precautions: Wear suitable protective clothing, gloves and eye/face protection.  
 Storage Precautions: Store at moderate temperatures in dry, well ventilated area. Keep in original containers. Store away from; oxidising material.

**8 PERSONAL PROTECTION/EXPOSURE CONTROLS**

Name	Std	TWA – 8 hrs		STEL – 15 min	
Sodium Hydroxide	WEL				2 mg/m <sup>3</sup>

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)

Protective Equipment:



Engineering Measures: Not relevant  
 Respiratory Equipment: Respiratory protection not required.  
 Hand Protection: Rubber gloves are recommended.  
 Eye Protection: Use approved safety goggles or face shield  
 Other Protection: Wear appropriate clothing to prevent any possibility of skin contact.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Liquid  
 Colour: Clear Colourless to Pale Pink (un-dyed)  
 Odour: Characteristic  
 Solubility: Soluble in water  
 Boiling Pt. (°C): 102  
 Relative Density: 1.242 @ 20 °C  
 Flash Pt. (°C): Boils without flashing  
 Melting Point: (°C): -2  
 pH-Value, Conc: 11.90 @ 3ml per Litre

**10 STABILITY AND REACTIVITY**

Stability: No particular stability concerns  
 Materials to Avoid: Strong acids. Aluminium, Tin, Zinc and their alloys

**11 TOXICOLOGICAL INFORMATION**

Toxicological Information: Refer to section 2

**12 ECOLOGICAL INFORMATION**

Ecotoxicity: Potentially hazardous due to the alkalinity of the product  
 Bio Accumulation: This product does not contain any substances expected to be bioaccumulating.  
 Degradability: Sequestrant is readily degraded during biological effluent treatment processes.

13 DISPOSAL CONSIDERATIONS

Disposal Method: Discharge used solution to drain. Small Amounts (less than 5 litres) of unwanted product may be flushed with water to sewer. Large volumes must be sent for disposal as special waste. Rinse out empty container with water and consign to normal waste.

14 TRANSPORT INFORMATION

Label for Conveyance:



Proper Shipping Name:	Caustic Alkali Liquid, N.O.S (sodium hydroxide solution)	
UN No Road:	1719	
ADR Class:	Class 8: Corrosive substances	ADR PACK GR: II
RID Class:	Class 8: Corrosive substances	RID PACK GR: II
UN No Sea:	1719	
IMDG Class :	Class 8: Corrosive substances	IMDG PACK GR: II
Marine Pollutant:	No.	
UN NO. Air:	1719	
Air Class:	Class 8: Corrosive substances	AIR PACK GR: II

15 REGULATORY INFORMATION

Label for Supply:



CORROSIVE

Risk Phrases:	R35	Causes severe burns
Safety Phrases:	S2	Keep out of reach of children.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S26	In case of contact with eyes, rinse immediately with plant of water and seek medical advice.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Environmental Listings:	Hazardous Waste (England and Wales) Regulations
EU Directives:	System 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:	The Chemicals (Hazards Information and Packaging for Supply) Regulations. 2009 (S.I 2009 No.716)
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
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Risk Phrases in full	R35	Causes severe burns
	R36/38	Irritating to eyes and skin



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## DISHWASH DETERGENT FOR HARD WATER

### Description

High active, low foaming dishwashing detergent for use in soft to medium hard water areas. Suitable for use in all types of single and multi tank automatic dishwashing machines.

### Features and Benefits:

- Cuts through grease and dried on food
- Prevents soil and limescale being re-deposited
- Suitable for use in soft to medium hard water
- Supplied in a natural see-through container to easily check the volume
- Available in a choice of pack sizes

### How to Use

Dispense into automatic dishwashing machine through an electronic dispenser at a ratio of 1-3ml per litre, depending on soiling and water hardness, in accordance with the machine manufacturers instructions.

For best results use in conjunction with DISHWASH RINSE AID

### NOT TO BE USED FOR HAND DISHWASHING OR IN DOMESTIC MACHINES

### Composition

Contains a blend of sodium hydroxide, sequestering agents and dye.

### Typical Product Data

Appearance:	Liquid
Colour:	Clear Colourless to pale pink (un-dyed)
Odour:	Characteristic
pH-diluted 3mls/tr:	11.90
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.