



Jangro Limited
 Jangro House
 Worsley Road
 Farnworth
 Bolton
 BL4 9LU

Tel. 0845 458 5223

PRODUCT SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: JANGRO DISHWASH DETERGENT FOR HARD WATER
 Product Code: BB070-20, BB070-10 & BB070-5

1.2 Relevant identified uses of the substances or mixture and uses advised against

Identified Uses: Alkaline Liquid detergent for dish washing machines

1.3 Details of the supplier of the safety data sheet

Supplier: Jangro Limited
 Jangro House
 Worsley Road
 Farnworth
 Bolton, UK
 BL4 9NL
 Tel; 0845 458 5223
 Fax; 01204 576 801
enquires@jangrohq.net

1.4 Emergency telephone number

Emergency Contact and Times: 01772 318818
 Between: 8.30 and 4.30pm Mon-Fri

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification (1999/45/EEC): C;R35

2.2 Label elements

Labelling



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 plenty of water and seek medical advice.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

2.3 Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient Name	EC No.	CAS No.	Content	Classification	Reg No.
Sodium Hydroxide	215-185-5	1310-73-2	10- 20%	C; R35	01-2119457892-27-xxxx

Classification (EC 1272/2008) Skin Corr. 1A – H314				Classification (67/548/EEC) C;R35	
Amino Trimethyl Phosphonic Acid Penta Sodium Salt	:	2235-43-0	1-5%	Xi; R36/38	
Classification (EC 1272/2008) Skin Irrit. 2 – H315 Eye Irrit. 2 – H319				Classification (67/548/EEC) Xi;R36/38.	

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

Inhalation:	Not relevant. Inhalation unlikely. In case of inhalation of spray mist: Move person into fresh air and keep at rest.
Ingestion:	DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink a few glasses of water or milk. Get medical attention immediately!
Skin Contact:	Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye Contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

4.2 Most important symptoms and effects, both acute and delayed

General information:	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
Inhalation:	Irritation of nose, throat and airway.
Ingestion:	May cause chemical burns in mouth and throat.
Skin Contact:	Burning pain and severe corrosive skin damage. May cause serious chemical burns to skin.
Eye Contact:	Extreme irritation of eyes and mucous membranes, including burning and tearing. Corneal damage.

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

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific Hazards: When heated and in case of fire, harmful vapours/gases may be formed.

5.3 Advice for firefighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Personal Precautions: For personal protection, see section 8.

6.2 Environmental precautions

Environmental Precautions: Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up.

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.

6.4 Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear suitable protective clothing, gloves and eye/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Store at moderate temperatures in dry, well ventilated area. Keep in original containers. Store away from; oxidising material.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description: see product information sheet & label for detailed use of this product.

SECTION 8: PERSONAL PROTECTION/EXPOSURE CONTROLS

8.1 Control parameters

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

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)

8.2 Exposure controls

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic 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

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The solution is strongly alkaline and reacts with strong acids with heat generation.

10.2 Chemical stability

No particular stability concerns.

10.3 Possibility of hazardous reactions

See sections 10.1, 10.4 & 10.5

10.4 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 acids. Aluminium, Tin, Zinc and their alloys

10.6 Hazardous decomposition products

No hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological Information: We have not carried out any animal testing, therefore we have no Toxicological Data specifically for this product. The Toxicological Data, where provided by the raw material manufacturer, can be made available on request.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Potentially hazardous due to the alkalinity of the product

12.1 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

Degradability: Sequestrant is readily degraded during biological effluent treatment processes.

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 assessments

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

Not known

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

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.

SECTION 14: TRANSPORT INFORMATION**14.1 UN Number**

UN No. (ADR/RID/AND)	1719
UN No. (IMDG)	1719
UN No. (ICAO)	1719

14.2 UN Proper shipping name

Proper shipping name: Caustic Alkali Liquid, N.O.S (sodium hydroxide solution)

14.3 Transport hazard class(es)

ADR/RID/ADN Class:	Class 8: Corrosive substances.
IMDG Class:	Class 8: Corrosive substances.
ICAO Class/Division	Class 8: Corrosive substances.

Transport Labels:**14.4 Packing group**

ADR/RID/ADN 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 MARPOL73/78 and the IBC Code: Not relevant for packaged product.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environment regulations/legislation specific for the substance or mixture**

Guidance Notes: Workplace Exposure Limits EH40.

EU Legislation: Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under CHIP Directive 1999/45/EEC Classification,

Packaging & Labelling of Dangerous Preparations. Ingredients are listed with classification under both CHIP – Directive 67/548/EEC – classification, packaging & labelling of dangerous substances & GHS/CLP – Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

15.2 Chemical Safety Assessment: Not applicable this product is a mixture.

SECTION 16: OTHER INFORMATION

Information Sources: Material Safety Data Sheet, misc. manufacturers. CLP Class – Table 3.1 List of harmonised classification and labelling of hazardous substances. CHIP Class – Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex 1 to Directive 67/548/EEC.

Revision Comments: New Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). No change in Product Classification – Main change is the move of labelling elements from Section 15 to Section 2 & Section 3 now has a different layout for the ingredients and lists their classification in both CHIP & CLP format.

Revision Date: 01/10/2012

Revision: Issue 7

Safety Data Sheet Status: This Risk Phrases/ 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 Risk Phrases/ Hazard Statements relating to this product see Section 2.

Risk Phrases in full: R35 Causes severe burns
R36/38 Irritating to eyes and skin

Hazard statements in full: H319 Causes serious eye irritation
H314 Causes Severe skin burns and eye damage
H315 Causes skin irritation



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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.