



Jangro Limited
James House
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Farnworth
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JANGRO BB075
Revision June 2008

PRODUCT SAFETY DATA SHEET

1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Product Name: JANGRO DISHWASH DETERGENT FOR SOFTENED WATER
Applications: Alkaline liquid detergent for dishwashing machines
Supplier: Jangro Limited, as above

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

2 INFORMATION ON INGREDIENTS

Ingredient Name	EC No.	CAS No.	Content	Classification
Sodium Hydroxide	215-185-5	1310-73-2	10-20%	C; R35
Trisodium Nitrilo Triacetate	225-768-6	5064-31-3	5-10%	Xi; R36/38

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

3 HAZARDS IDENTIFICATION

Causes severe burns

Classification: C;R35

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! 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 extinguishing media appropriate for surrounding fire.

Specific Hazards: If involved in fire, may emit noxious fumes

Protective Measures in Fire: Protective clothing and respiratory protection should be worn when tackling fires involving this product.

6 ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions: Large spillages or uncontrolled discharge into rivers or streams must be reported to The Environment Agency or other regulatory body.

Spillage Cleanup 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: 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	LT - ppm	LT – mg/m3	ST - ppm	ST = mg/m3
Sodium Hydroxide	WEL				2mg/m3

INGREDIENT COMMENTS: WEL = Workplace Exposure Limits

Protective Equipment:



Engineering Measures: N/A
 Respiratory Equipment: N/A
 Hand Protection: Household rubber gloves
 Eye Protection: Use approved safety goggles or face shield
 Other Protection: Wear suitable protective clothing

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/ Colour: Liquid. Red
 Odour: Faint Ammonia
 Solubility Description: Soluble in water
 Boiling Pt. (°C): 102 @ 760mmHg
 Specific Gravity (Water=1): 1.220 @ 20 °C
 Flash Pt. (°C): Boils without flashing
 Melting Point: (°C): -2
 pH-Value, Conc: 11.60
 Concentration (%M): 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 3

12 ECOLOGICAL INFORMATION

Ecotoxicity: Potentially hazardous due to the alkalinity of the product
 Bio Accumulation: Completely soluble. No bioaccumulation.
 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:



Road: N/A
UN No: 1719
Hazard Class (ADR): Class 8: Corrosive substances ADR PACK GR: II
Proper Shipping Name 1: Caustic Alkali Liquid, N.O.S (sodium hydroxide solution)

Rail:
Rail Transport Class No: Class 8: Corrosive substances RID PACK GR: II

Sea:
UN Sea: 1719
Sea Transport Class No: Class 8: Corrosive substances SEA PACK GR: II

Air:
UN Air: 1719
Air Transport Class No: Class 8: Corrosive substances AIR PACK GR: II

15 REGULATORY INFORMATION

Label for Supply:



CORROSIVE

CONTAINS: SODIUM HYDRIXIDE
Risk Phrases: R-35 Causes severe burns
Safety Phrases: S-2 Keep out of reach of children.
S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S-26 In case of contact with eyes, rinse immediately with plant of water and seek medical advice.
S-45 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: Systems of specific information relating to Dangerous Preparation. 91/155
As amended by Directive 93/112/EC and 2001/58/EC
Statutory Instruments: Chemicals (Hazards information and packaging) regulations. 2002
Approved Code of Practice: The compilation of safety data sheets L130
Guidance Notes: Workplace Exposure Limits EH40.
Approved guide to the classification and labelling of substances and preparations dangerous for supply. L100.

16 OTHER INFORMATION

Information sources: Approved Supply List – HSC
Material Safety Data Sheet, Misc. manufacturers

R-PHASES (Full Text) R-35 Causes severe burns
R-36/38 Irritating to eyes and skin



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DISHWASH DETERGENT FOR SOFTENED WATER

Description

Low foaming dishwashing detergent for use in soft water conditions. Suitable for use in all types of single and multi tank automatic dishwashing machines.

Features and Benefits

- Removes grease and dried on food
- Excellent cleaning performance in soft water conditions
- Will prevent scale formulation and redeposition of soil
- 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 manufacturers instructions.

NOT TO BE USED FOR HAND DISHWASHING OR IN DOMESTIC MACHINES

Composition

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

Typical Product Data

Appearance:	Clear Liquid
Odour:	Characteristic
Specific Gravity (20°C):	1.22
Colour:	Pink
pH-diluted 3ml/lt:	12.0
Shelf Life Unopened:	Not less than 3 years

Packaging

Pack:
5lt
10lt
20lt

Storage

Store in original sealed container and protect from extremes of temperature

Biodegradability

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