



Jangro Limited
James House
Worsley Road
Farnworth
Bolton
BL4 9NL

Tel. 0845 458 5223

JANGRO BB080
Revision June 2008

PRODUCT SAFETY DATA SHEET

1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Product Name: JANGRO SANITISER DISHWASH DETERGENT
Applications: Alkaline and Chlorine liquid detergent for dish washing machines
Supplier: Jangro Limited, as above

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

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content	Classification
Sodium Hydroxide	215-185-5	1310-73-2	10-20%	C;R35
Sodium Hypochlorite Solution...% Cl Active	231-668-3	7681-52-9	5-10%	C;R34 R31 N;R50

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

3 HAZARDS IDENTIFICATION

Causes severe burns
Contact with acids liberates toxic gases.
Classification: C;R35. R31

4 FIRST AID MEASURES

Eyes: Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.
Skin: 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.
Hazardous Decomposition Products: 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 During Spill: Wear suitable protective clothing, gloves and eye/face protection.
Precautions to Protect Environment: 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 in a cool place away from light. Keep in original container. Keep containers tightly closed.

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. Clear Pale Yellow
 Odour/Taste: Faint Characteristic Hypochlorite
 Solubility Description: Soluble in water
 Boiling Pt. (°C): 102 @ 760mmHg
 Specific Gravity (Water=1): 1.296 @ 20 °C
 Flash Pt. (°C): Boils without flashing
 Melting Point: (°C): -2
 pH-Value, Conc: 12.20
 Concentration (%M): 5ml per Litre

10 STABILITY AND REACTIVITY

Stability: Inadequately vented containers may become pressurised
 Conditions to Avoid: Heat and direct sunlight
 Materials to Avoid: Strong acids. Aluminium, Tin, Zinc and their alloys
 Hazardous Decomposition Products: Toxic chlorine gas is released if product is mixed with acidic materials

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 & hydrochlorite 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

Risk Phrases:	R-35 R-31	Causes severe burns Contact with acids liberates toxic gas.
Safety Phrases:	S-2 S-36/37/39 S-26 S-45 S-50B	Keep out of reach of children. Wear suitable protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately with plant of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) Do not mix with other products especially acidic products.
Environmental Listings:	Control of pollution (special waste) regulations 1980.	
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 date 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 Material Safety Data Sheet, Misc. manufacturers	
R-PHASES (Full Text)	R-31 R-34 R-35 R-50	Contact with acids liberates toxic gas. Causes burns Causes severe burns Very toxic to aquatic organisms



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SANITISER DISHWASH DETERGENT

Description

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

Features and Benefits

- Cuts through grease and dried on food
- Effectively removes protein and tannin
- Contains sodium hypochlorite
- Ideal for use in soft water
- Supplied in natural see-through containers to easily check the volume

How to Use

Dispense into automatic dishwashing machine through an electronic dispenser at a ration of 2-5ml per litre, depending on soiling, in accordance with the machine manufacturer 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 hypochlorite solution, sodium hydroxide and sodium phosphonate

Typical Product Data

Appearance/ Colour:	Liquid. Clear Pale Yellow
Odour/Taste:	Faint Characteristic Hypochlorite
Solubility Description:	Soluble in water
Boiling Pt. (°C):	102 @ 760mmHg
Specific Gravity (Water=1):	1.296 @ 20 °C
Flash Pt. (°C):	Boils without flashing
Melting Point: (°C):	-2
pH-Value, Conc:	12.20
Concentration (%M):	5ml per Litre

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