



Jangro Limited
James House
Worsley Road
Farnworth
Bolton
BL4 9NL

Tel. 0845 458 5223

JANGRO BB080

Revision February 2010

PRODUCT SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: JANGRO SANITISER DISHWASH DETERGENT
Applications: Alkaline and Chlorine liquid detergent for dish washing machines
Supplier: Jangro Limited, James House, Worsley Road, Farnworth, Bolton, BL4 9NL
Telephone : 0845 458 5223
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Emergency Contact and Times: 01772 318 818 Between 8.30am and 4.45pm Mon - Fri

2 HAZARDS IDENTIFICATION

Contact with acids liberates toxic gases. Causes severe burns. Very toxic to aquatic organisms.

Classification: C;R35. N;R50. R31

3 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.

4 FIRST AID MEASURES

Inhalation: Not relevant. Inhalation unlikely.
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.

5 FIRE FIGHTING MEASURES

Extinguishing Media: This product is not flammable. Use extinguishing media appropriate for surrounding materials.
Specific Hazards: By heating and 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: Wear suitable protective clothing, gloves and eye/face protection. (see section 8)
Environmental Precautions: This product is dangerous for the environment: Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to The Environment Agency or other appropriate regulatory body.
Spillage Cleanup Methods: Small quantities may be flushed to drains with plenty of water. Large spill: Pick up with vacuum or absorbent solid, store in closed contained for disposal.

7 HANDLING AND STORAGE

Usage Precautions: Wear suitable protective clothing, gloves and eye/face protection.
 Storage Precautions: Store in a cool place. Protect from light, including direct sunrays. Keep in original container. Keep containers tightly closed.

8 PERSONAL PROTECTION/EXPOSURE CONTROLS

Name	Std	TWA – 8 hrs		STEL – 15 min	
Sodium Hydroxide	WEL				2mg/m3

INGREDIENT COMMENTS: WEL = Workplace Exposure Limit for COSHH assessments in the UK
 ST = Short Term Exposure Limit (15 minute) & LT = Long-Term Exposure Limit (8 hours).

Protective Equipment:



Engineering Measures: Not relevant.
 Respiratory Equipment: Respiratory protection not required.
 Hand Protection: Wear Protective Gloves (Household rubber gloves).
 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 Pale Yellow
 Odour: Faint Characteristic Hypochlorite
 Solubility: Soluble in water
 Boiling Point. (°C): 102
 Relative Density: 1.296 @ 20 °C
 Flash Point. (°C): Boils without flashing
 Melting Point: (°C): -2
 pH-Value, Diluted Solution 12.20 @ 5ml per Litre

10 STABILITY AND REACTIVITY

Stability: Inadequately vented containers may become pressurised
 Conditions to Avoid: Avoid exposure to high temperatures or 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 2

12 ECOLOGICAL INFORMATION

Ecotoxicity: Dangerous for the environment. Very toxic to aquatic organisms. Another potential hazard is from the alkalinity of the product.
 LC 50, 96 Hrs, FISH mg/l Sodium Hypochlorite [CAS No7681-52-9] 0.03 - 0.2mg/l
 Bio Accumulation: The product does not contain any substances expected to be bioaccumulating.
 Degradability: Sequestant is readily degraded during biological effluent treatment processes.
 Acute Fish Toxicity Toxic to aquatic organisms

13 DISPOSAL CONSIDERATIONS

Disposal 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.

14 TRANSPORT INFORMATION

Label for Conveyance:



Proper Shipping Name:	Caustic Alkali Liquid, N.O.S (sodium hydroxide solution & hydrochlorite solution.)		
UN No: Road	1719	Air Class:	Class 8 : Corrosive substances
ADR Pack Group	II	RID Class No:	Class 8 : Corrosive substances
Rid Pack Group:	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****DANGEROUS FOR THE ENVIRONMENT**

Risk Phrases:	R35	Causes severe burns
	R31	Contact with acids liberates toxic gas.
	R50	Very toxic to aquatic organisms.
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 the label where possible)
	S50B	Do not mix with other products especially acidic products.
Environmental Listings:	Hazardous Waste (England and Wales) Regulations.	
EU Directives:	System of specific information relating to Dangerous Preparations. 2001/58/EC. As amended by Directive 93/112/EC and 2006/8/EC	
Statutory Instruments:	Chemicals (Hazard information and packaging) Regulations. 2008	
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

Risk Phrases in full:	R31	Contact with acids liberates toxic gas.
	R34	Causes burns
	R35	Causes severe burns
	R50	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