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## PRODUCT SAFETY DATA SHEET

### 1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Trade Name: JANGRO BLEACH  
Supplier: Jangro Limited, as above

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	EINECS No.	CAS No.	% Range	Symbol	Risk Phrase
Sodium Hypochlorite Solution, available Chlorine		7681-52-9	<5	C	R31-34

COMPOSITION COMMENTS: Sodium hypochlorite solution, containing less than 5% nominal available chlorine.

### 3 HAZARDS IDENTIFICATION

Contact with acids liberates toxic gas (chlorine)

### 4 FIRST AID MEASURES

Eyes: Keeping eye open, immediately irrigate thoroughly with water or eyewash for 15 minutes. Obtain medical attention immediately.  
Skin: Remove contaminated clothing. Wash thoroughly with plenty of running water. Obtain medical attention if symptoms develop.  
Ingestion: Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give water to drink. Obtain medical attention immediately.  
Inhalation: If exposed to chlorine or other vapours, remove to fresh air. Obtain medical attention.

### 5 FIRE FIGHTING MEASURES

Extinguishing Media: Water, foam or dry chemical.  
Non-combustible but when involved in a fire, toxic vapours ( chlorine) will be evolved, thus a self-contained breathing apparatus should be wore.

### 6 ACCIDENTAL RELEASE MEASURES

Small Spillage: Dilute to waste with plenty of water.  
Large Spillage: Absorb with sand, earth or granules (do not use sawdust or paper). Wash down site with water.

### 7 HANDLING AND STORAGE

Handling: Adequate ventilation is required. Avoid contact with skin and eyes. Do not breathe mist. Avoid contact with other cleaning agents.  
Storage: Store in cool place away from direct sunlight.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Wear PVC or rubber gloves, aprons, eye shields when handling concentrate.

#### Occupational Exposure Limits:

Hazardous Ingredient	LTEL 8hr ppm	TWA mg/m3	STEL ppm	mg/m3
In case of chlorine emission, the OEL for chlorine should be observed:				
Chlorine	0.5	1.5	1	2.9

**9**                    PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:            Clear pale yellow liquid  
Odour:                    Faintly chlorinous  
pH:                        Typical 11.5  
Flash Point °C            n/a  
Relative Density (20°C)    4 % solution typical 1.059  
Solubility in Water        Soluble

**10**            STABILITY AND REACTIVITY

Stability:                Product decomposes over time. Factors that increase the rate of decomposition are: increase in temperature, certain metallic impurities, high initial concentration, fall in pH below 11, and exposure to light..  
Conditions to Avoid:    Contact with metals, high temperatures and direct sunlight. Do not mix with other cleaning products, particularly acids or ammonia.  
Materials to Avoid:     Mildly corrosive to most metals, to painted surfaces and most organic materials.  
Hazardous Decomposition Products:  
                              Chlorine gas.

**11**            TOXICOLOGICAL INFORMATION

Inhalation:              Little hazard if stored correctly. Vapour containing chlorine irritates the nose, throat and lungs.  
Ingestion:                May irritate the mouth, throat and stomach.  
Skin:                      Repeated or prolonged contact may cause irritation and eventually dermatitis.  
Eyes:                      May cause irritation and inflammation.

**12**            ECOLOGICAL INFORMATION

Environmental Hazards:    To safeguard the environment, this product is rapidly broken down after use to common salt, oxygen and other harmless materials.

**13**            DISPOSAL CONSIDERATIONS

Disposal Methods:        Wash out containers with water before disposal.

**14**            TRANSPORT INFORMATION

Road:                      Not classified as hazardous  
UN No:  
TREM Card No:  
ADR/RID Class:  
IMDG Class and Packaging Group:  
Proper Shipping Name:  
Marine Pollutant:  
Customs Tariff:            2828 90 00

**15**            REGULATORY INFORMATION

CHIP Classification:        Not classified as hazardous  
Hazard Symbol:

Risk Phrases:            R-31                    Contact with acids liberates toxic gas.

Safety Phrases:            S2                      Keep out of reach of children  
                                  S24/25                Avoid contact with skin or eyes  
                                  S50                      Do not mix with other chemicals.

**16**            OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. However, the information is provided without any warrantee, express or implied regarding its correctness.

Text of the R-phrases that are allocated to the ingredients listed in section 2 of this safety data sheet.

R31                      Contact with acids liberates toxic gas  
R34                      Causes burns