

Jangro Limited James House Worsley Road Farnworth Bolton BL4 9NL

Tel. 0845 458 5223

## PRODUCT SAFETY DATA SHEET

1 <u>IDENTIFICATION OF PREPARATION AND THE SUPPLIER</u>

Trade Name: JANGRO CHLORINE TABLETS
Supplier: Jangro Limited, as above

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	EINECS No.	CAS No.	% Range	Symbol	Risk Phrase
Sodium Dichloroiscyanurate	220-767-7	2893-78-9	50	O, Nn, N	R8-22-31-36/37- 50/53
Adipic Acid	204-673-3	124-04-9	15-30	Xi	R36
Sodium Carbonate	207-838-8	497-19-8	0-5	Xi	R36

COMPOSITION COMMENTS: An effervescent base with an active ingredient of sodium ichloroisocyanurate, Na DCC.

## 3 HAZARDS IDENTIFICATION

Oxidising, Harmful if Swallowed. Irritating to eyes and respiratory system. Contact with acids liberates toxic gas ( Chlorine)

## 4 FIRST AID MEASURES

Eyes: Keeping eye open, immediately irrigate thoroughly with water or eyewash for at least 15 minutes obtain

medical attention.

Skin: Wash thoroughly with plenty water.

Ingestion: Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give water to

drink. Obtain medical attention immediately if several tablets may have been swallowed..

Inhalation: Remove to fresh air if affected.

NB. These tablets are not a medicine and are not intended for oral administration.

#### 5 FIRE FIGHTING MEASURES

Extinguishing Media: On small fires, use water-spray or fog. On large fires, use heavy deluge or fog steams. If insufficient water

is used there is risk of explosion of hot damp material. DO NOT use dry chemical extinguisher containing ammonium compounds. Product is potentially flammable. Decomposes above 250°C with release of toxic

fumes (chlorine) so breathing apparatus should be worn.

## 6 ACCIDENTAL RELEASE MEASURES

Small + Large Spillages: Do not add water, sweep up into small (≤500g), clean, dry containers. For large quantities (>100kg) place

into bins lined with polythene bags.

Do not allow to contaminate water courses. Do not contaminate spill materials with any organic materials,

ammonia, ammonia salts or urea. Respiratory protection may be necessary.

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7 HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact of dust or aqueous solution with skin, eves and clothing. Do not mix

other chemicals or cleaners. Do not sprinkle on urine spillages as these are generally acidic and toxic

chlorine gas will be evolved.

Storage: Store in a cool, dry, well-ventilated area, in closed containers. Do not store at temperatures above 60°C

Do not store damp or contaminated material. Store away from all incompatible and combustible materials

(see section 10)

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Avoid contact with skin and eyes. The use of PVC or rubber gloves and eyeshields is recommended. Avoid breathing dust. Use only in a well ventilated area.

**Occupational Exposure Limits:** 

Hazardous Ingredient LTEL 8hr TWA STEL

ppm mg/m³ 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: White/ off white, flat beveled edge tablets

Odour: None to mild chlorine

pH: 5.9 typical (1 tablet in 1 litre of water)

Flash Point °C 240-250°C

Relative Density (20°C) Each tablet contains 1670mg sodium dichloroisocyanurate (50% w/w) in an effervescent base.

Solubility in Water Soluble, effervescent

10 STABILITY AND REACTIVITY

Stability: Stable under normal conditions. On contact with moisture product decomposes to chlorine, hypochlorous

acid and cyanuric acid.

Conditions to Avoid: High temperatures, heat sources and naked flames. Decomposes at temperatures above 250°C,

liberating toxic gases. Moisture. High humidity levels.

Materials to Avoid: Organic materials, acids, oils, greases, sawdust, alkalis, other oxidizers, nitrogen-containing compounds,

dry fire extinguishers containing mono-ammonium phosphates.

Hazardous Decomposition Products:

Chlorine gas.

#### 11 TOXICOLOGICAL INFORMATION

Inhalation: May irritate or cause nausea only if significant quantities of dust present.

Ingestion: Should a single tablet be ingest, no short or long term effect should result, other than a possibly mildly

upset stomach. Harmful if swallowed in quantity. NaDCC acute oral oxicity LD<sub>50</sub> (rat): 1.67g/kg LD<sub>50</sub> (rabbit): 2.0 to 2.5g/kg. No toxicity to dogs was found. Allowing for a two fold higher sensitivity than rats for humans, the likely lethal dose would be 35 tablets (58g NaDCC) for a 70kg adult and 6 tablets (10G

NaDCC) for a 12kg Child.

Skin: No irritate on the skin was observed after application of sodium dichloroisocyanurate (NaDCC) in the form

of undiluted, dry power for 24 hours. Occasional splashes of Covclor tablet solution are unlikely to cause

damade

Eyes: May irritate but unlikely to cause permanent damage. No eye damage or irritation was caused by the daily

instillation of 333ppm solution of NaDCC in the eye of each of 5 albino rabbits for 5 days per week in 3

months.

#### 12 ECOLOGICAL INFORMATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not release into surface waters.

The following LC<sub>50</sub> values have been obtained for the active ingredient sodium dichloroisocyanurate:

Rainbow Trout (96hrs exposure) 0.22mg/1 Blueqill Sunfish (96hrs exposure) 0.28mg/1

Daphnia Magna (24hrs exposure) 0.55mg/1

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13 DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of according to Local Authority regulations. Care must be taken to prevent environmental

contamination from the use of this material, also to prevent accidental ingestion.

14 TRANSPORT INFORMATION

Road: Not classified as hazardous (Limited quantities)

UN No: (200/pack) 2465 TREM Card No: -

ADR/RID Class: Class 5.1

IMDG Class and Packaging Group: Class 5.1 packing Group 2

Proper Shipping Name: Dangerous goods in limited quantities of class 5.1

Marine Pollutant: No Customs Tariff: 3402 90 90

15 REGULATORY INFORMATION

CHIP Classification: Harmful, oxidising

Hazard Symbol: Xn, O

Risk Phrases: R8 Contact with combustible material may cause fires.

R22 Harmful if swallowed

R31 Contact with acid liberates toxic gas R36/37 Irritating to eyes and respiratory system.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Safety Phrases: S2 Keep out of reach of children

S8 Keep container dry

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

S41 In case of fire and/or explosion, do not breathe fumes.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

## 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.

R8 Contact with combustible material may cause fires.

R22 Harmful if swallowed

R31 Contact with acid liberates toxic gas
R36/37 Irritating to eyes and respiratory system.

R50/53 Very toxic to aquatic organisms, may cause log-term adverse effects in the aquatic

environment

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# **CHLORINE TABLETS**

## **Description**

Chlorine Tablets are based on a blend of patented effervescent base with an active ingredient of Sodium Dichloroisocyanurate.

When dissolved in water, Chlorine Tablets give a measured dose of available chlorine, which can be used for the disinfection of equipment, work surfaces, plant etc., in the hospital, medical, hotel, catering and local authority industries.

With high and rapid activity against a wide range of bacteria, fungi, spores and viruses (including A.I.D.S. and Hepatitis B), Chlorine Tablets also offer economical advantages in terms of ease of use, accurate dilution and prolonged shelf life.

## **Recommendation for Use**

The use of Chlorine Tablets can be split into three major areas:

- 1. Disinfection of surfaces, laboratory equipment and glassware soiled with blood, serum or specimen.
  - Disinfection after disposal of body fluids, urine or contaminated effluent.
- 2. Disinfection of dirty or slightly soiled heat sensitive instruments (except plated metals), general laboratory use, bedpans and general environmental disinfection.
- 3. Disinfection for food hygiene purposes of clean surfaces and infant feeding bottles.

## **Pack Size**

Tub of 200 tablets.

## **Typical Product Data**

Physical Form: White/ off white, flat beveled edge tablets

Odour: None to mild chlorine

pH: 5.9 typical (1 tablet in 1 litre of water)

Flash Point °C 240-250°C

Relative Density (20°C) Each tablet contains 1670mg sodium dichloroisocyanurate (50% w/w) in an effervescent base.

Solubility in Water Soluble, effervescent