



## SAFETY DATA SHEET CHLORINE TABLETS

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name CHLORINE TABLETS  
Product No. BC012

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses CHLORINE BASED DISINFECTANT

#### 1.3. Details of the supplier of the safety data sheet

Supplier Jangro Ltd  
Jangro House  
Worsley Road  
Farnworth  
BL4 9LU  
Tel: 0845 458 5223  
Fax: 01204 576801  
enquiries@jangrohq.net

#### 1.4. Emergency telephone number

0845 458 5223

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Ox. Sol. 2 - H272  
Human health EUH031; Acute Tox. 4 - H302; Eye Irrit. 2 - H319; STOT SE 3 - H335  
Environment Aquatic Chronic 1 - H410

Classification (1999/45/EEC)

Xn; R22. Xi; R36/37. O; R8. N; R50/53. R31.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

Irritating to eyes. Splashes may cause serious eye damage. In high concentrations, vapours may be irritating to the respiratory system.

Environment

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Physical and Chemical Hazards

Warning! Do not use together with other products. May release dangerous gases (chlorine).

#### 2.2. Label elements

Contains TROCLOSENE SODIUM

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

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<p>H335 H410</p> <p>Supplementary Precautionary Statements</p> <p>P210 P220 P221 P270 P271 P273 P280 P261 P264 P370+378</p> <p>P301+312 P304+340 P305+351+338 P312 P313 P330 P337 P391 P403+233 P405 P501</p> <p>Supplemental label information</p> <p>EUH031</p>	<p>May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.</p> <p>Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep away from combustible materials. Take any precaution to avoid mixing with combustibles. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapour/spray. Wash contaminated skin thoroughly after handling. In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical advice/attention. Rinse mouth. If eye irritation persists: Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to ...</p> <p>Contact with acids liberates toxic gas.</p>
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### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

TROCLOSENE SODIUM	60-100%
CAS-No.: 2893-78-9	EC No.: 220-767-7
Classification (EC 1272/2008) Ox. Sol. 2 - H272 EUH031 Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) E;R2 O;R8 Xn;R22 Xi;R36/37 R31 N;R50/53
ADIPIIC ACID	30-60%
CAS-No.: 124-04-9	EC No.: 204-673-3
	Registration Number: 01-2119457561-38-xxxx
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

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## General information

If medical attention is required present a copy of this datasheet to the physician.

### Inhalation

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention. **WARNING!** Effects on the lungs may be delayed.

### Ingestion

Rinse mouth thoroughly. **DO NOT** induce vomiting. Get medical attention immediately. **NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!** Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.

### 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. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

## **4.2. Most important symptoms and effects, both acute and delayed**

### Inhalation.

Upper respiratory irritation. Irritation of nose, throat and airway.

### Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

### Eye contact

Irritation of eyes and mucous membranes.

## **4.3. Indication of any immediate medical attention and special treatment needed**

No specific first aid measures noted.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### Extinguishing media

Use: Powder. Foam. Water spray. Dry chemicals, sand, dolomite etc. Only use large quantities of water to avoid risk of explosion.

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl). Chlorine. Nitrous gases (NO<sub>x</sub>).

#### Unusual Fire & Explosion Hazards

May develop highly toxic or corrosive fumes if heated.

### **5.3. Advice for firefighters**

#### Special Fire Fighting Procedures

Use supplied air respirator if product is involved in a fire. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control. Move container from fire area if it can be done without risk. Use water **SPRAY** only to cool containers! Do not put water on leaked material.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes. Use protective gloves, goggles and suitable protective clothing. Do not breathe vapour. Avoid inhalation of dust.

### **6.2. Environmental precautions**

Do not allow ANY environmental contamination. Spillages or uncontrolled discharges into watercourses must be **IMMEDIATELY** alerted to the Environmental Agency or other appropriate regulatory body.

### **6.3. Methods and material for containment and cleaning up**

GENERAL. Clean-up personnel should use respiratory and/or liquid contact protection only if the product becomes wet. Call supplier for advice. **COLLECT.** Shovel into dry containers. Cover and move the containers. Flush the area with water.

### **6.4. Reference to other sections**

## **SECTION 7: HANDLING AND STORAGE**

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## **7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Avoid inhalation of vapours. Provide good ventilation.

## **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place. Store separated from: Acids. Oxidising material. Keep in original container. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

Storage Class

Chemical storage.

## **7.3. Specific end use(s)**

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1. Control parameters**

### **8.2. Exposure controls**

Protective equipment



Engineering measures

Provide adequate general and local exhaust ventilation.

Hand protection

Use suitable protective gloves if risk of skin contact.

Eye protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Skin protection

Wear apron or protective clothing in case of contact.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **9.1. Information on basic physical and chemical properties**

Appearance	Tablet.
Colour	White.
Odour	Chlorine.
Solubility	Miscible with water (effervesces to release Chlorine Gas.)
pH-Value, Diluted Solution	6.0 - 7.0 1%

### **9.2. Other information**

## SECTION 10: STABILITY AND REACTIVITY

### **10.1. Reactivity**

Generates toxic gas in contact with acid.

### **10.2. Chemical stability**

Avoid Contact with acids. Contact with alkalis. Mixing with any other material.

### **10.3. Possibility of hazardous reactions**

### **10.4. Conditions to avoid**

Generates toxic gas in contact with acid. Avoid contact with: Strong mineral acids. May react with amines to form noxious Chloramines.

### **10.5. Incompatible materials**

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Materials To Avoid

Amines. Strong oxidising substances. Strong acids.

## **10.6. Hazardous decomposition products**

Fire creates: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Chlorine. Hydrogen chloride (HCl). Nitrous gases (NO<sub>x</sub>).

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Toxicological information

No information available.

Inhalation

Irritating to respiratory system. Repeated exposure may cause chronic upper respiratory irritation.

Ingestion

Harmful if swallowed. Swallowing concentrated chemical may cause severe internal injury.

Skin contact

Liquid or powder may irritate skin.

Eye contact

Irritating to eyes. Repeated exposure may cause chronic eye irritation.

## **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **12.1. Toxicity**

Acute Fish Toxicity

Do not release into surface water. Discharge of large quantities into the aquatic environment may kill fish and other aquatic organisms.

Readily biodegradable so unlikely to accumulate in the aquatic environment.

### **12.2. Persistence and degradability**

Degradability

This product is readily biodegradable.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential

The product is not bioaccumulating.

### **12.4. Mobility in soil**

Mobility:

The product is soluble in water.

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

### **12.6. Other adverse effects**

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Contact specialist disposal companies. Do not mix with any other waste materials. Dispose of waste and residues in accordance with local authority requirements.

## **SECTION 14: TRANSPORT INFORMATION**

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## 14.1. UN number

UN No. (ADR/RID/ADN) 3077

UN No. (IMDG) 3077

## 14.2. UN proper shipping name

Proper Shipping Name Environmentally Hazardous Substance, Solid, n.o.s. (contains Sodium Troclocsene, Dihydrate)

## 14.3. Transport hazard class(es)

ADR/RID/ADN Class Class 9: Miscellaneous dangerous substances and articles.

IMDG Class 9

Transport Labels



## 14.4. Packing group

ADR/RID/ADN Packing group III

IMDG Packing group III

## 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



## 14.6. Special precautions for user

EMS F-A, S-F

Hazard No. (ADR) 50 Oxidising (fire-intensifying) substance.

Tunnel Restriction Code (E)

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

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National Regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ("CDG 2009"), SI 2009 No 1348

## **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

### **SECTION 16: OTHER INFORMATION**

Abbreviations and acronyms used in the safety data sheet

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

ADR: European Agreement concerning the International Carriage of dangerous Goods by Road.

IMDG: International Maritime Code for Dangerous Goods.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

CAS: Chemical Abstract Service.

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

LD50: Lethal dose, 50 percent.

LC50: Lethal concentration, 50 percent.

WEL: Workplace Exposure Limit.

STEL: Short Term Exposure Limit.

TWA: Time Weighted Average.

PBT: Persistent Bioaccumulative Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision. The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.

Revision Date 01-05-2015

Revision 2

Supersedes date 07-05-2014

Safety Data Sheet Status Approved.

Date 01-05-2015

Risk Phrases In Full

R31 Contact with acids liberates toxic gas.

R8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system.

R36 Irritating to eyes.

R2 Risk of explosion by shock, friction, fire or other sources of ignition.

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

Hazard Statements In Full

H319 Causes serious eye irritation.

EUH031 Contact with acids liberates toxic gas.

H302 Harmful if swallowed.

H335 May cause respiratory irritation.

H272 May intensify fire; oxidiser.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.