

## Chlorine Tablets

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product Identifier

Material name : Chlorine Tablets  
 Product code :

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

Product use : Sanitiser

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

Manufacturer/Supplier: IMG Ltd.,  
 Unit M  
 Riverside Industrial Estate  
 Fazeley  
 Tamworth  
 B78 3RW

Tel. : 01827 283322  
 Fax. : 01827 250143

Email (for SDSs) : sales@img-limited.co.uk

1.4 Emergency tel. no. : 01827 283322 (Available from 8.30 – 17.00 hours).

### 2. HAZARDS IDENTIFICATION

#### 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation.

Physical and Chemical Hazards : Not classified  
 Human health : Ac.Tox.4; H302; Eye Irrit.2; H319; STOT SE3; H335; EUH031  
 Environment : Aq. Acute 1; H400; Aq.Chronic 1; H410

#### 2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC

Signal word: Warning Contains: Troclosen sodium; Adipic acid

Pictograms:



**Hazard statements:**  
 H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H410 Very toxic to aquatic life with long lasting effects.

**Supplementary Hazard Statements**  
 EUH031 Contact with acids liberates toxic gas.

**Precautionary statements:**  
 P264 Wash skin with soap and water thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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**Precautionary statements (continued):**

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/national regulations.

**2.3 Other hazards:** No data available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures: Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
TROCLOSENE SODIUM	2893-78-9 220-767-7 01-2119489371-33-xxxx	Ox. Sol.2; H272 Ac. Tox.4; H302 Eye Irrit.2; H319 STOT SE3; H335: C ≥ 10 % Aq. Acute 1; H400 Aq. Chron.1; H410 EUH031; C ≥ 10 %	50-60%
ADIPIC ACID	124-04-9 204-673-3 01-2119457561-38-xxxx	Eye Irrit.2; H319	20-30%

See Section 16 for the full text of the H-statements noted above.

(1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation).

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General advice:** Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

**Skin contact:** Wash skin thoroughly with soap and warm water. Dry skin and apply replenishing cream. Seek medical advice if irritation develops.

**Eye contact:** Rinse with water for 15 minutes and seek medical advice if irritation persists.

**Ingestion:** Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

**Inhalation:** No undue effects in normal circumstances, if affected remove to fresh air and seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed:** May cause irritation to skin and eyes.

**4.3 Indication of any immediate medical attention and special treatment needed:** See skin and eye contact information above.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Product is non-flammable; use appropriate extinguishing media for the surrounding area.  
 Unsuitable extinguishing media: Not applicable.

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

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

### 5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

## 6. ACCIDENTAL RELEASE MEASURES

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

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

### 6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

### 6.3 Methods and materials for containment and cleaning up

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

### 6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care.

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

Store in a cool, well ventilated area between 5°C and 25°C. Keep container tightly closed.

7.3 Specific end use(s): No information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

No ingredients have been assigned a Workplace Exposure Limit.

DNEL/PNEC: No information available.

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### 8.2 Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

#### Personal protective equipment

**Respiratory protection:** Self-contained breathing apparatus may be required if handling in a confined space with no ventilation.

**Hand protection:** Rubber gloves; check with glove manufacturer for specific advice.

**Eye protection:** Tightly-fitting safety goggles.

**Skin and body protection:** Protective overalls.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls:** Do not discharge into drains or rivers.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

State and colour	Off-white tablets
Odour	Chlorine
Odour Threshold	No data available
Flammability	Non-flammable
Flash point	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	Not applicable
Oxidising properties	Non-oxidising
Solubility in water	Soluble
Solubility in other solvents	Not determined
pH	2.0-6.0
Melting point/range	Not determined
Boiling point/range	Not applicable
Density	No data available
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	Not applicable
Evaporation rate	No data available

9.2 Other information No data available

## 10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Reacts with acids producing toxic chlorine gas.
10.6 Hazardous decomposition products	Chlorine.

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### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Trosclosene sodium	1420 mg/kg (Rat)	No data available	No data available
Adipic acid	5560 mg/kg (Rat)	>7.7 mg/l (Rat) 4h	7940 mg/kg (Rabbit)

**Skin corrosion/irritation:** Not classed as corrosive or irritating to skin.

**Serious eye damage/eye irritation:** May cause eye irritation.

**Respiratory or skin sensitisation:** Not classed as a sensitiser.

**Repeated dose toxicity:** No data available.

**Carcinogenicity:** Not carcinogenic.

**Mutagenicity:** Not mutagenic.

**Toxicity for reproduction:** Not expected to impair fertility.

**Specific target organ toxicity (STOT):** May cause respiratory irritation.

**Further information** No data available.

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Chemical name	Species	Test	Value
Trosclosene sodium	Fish (Bluegill)	LC50 96h	0.283 mg/l
	Daphnia Magna	EC50 48h	0.15 mg/l
Adipic acid	Fish (Zebrafish)	LC0 96h	>1000 mg/l
	Daphnia Magna	LC50 48h	46 mg/l
	Algae	EC50 72h	59 mg/l

**12.2 Persistence and degradability** Expected to be biodegradable.

**12.3 Bioaccumulative potential** Potential for bioaccumulation.

**12.4 Mobility in soil** Soluble in water.

**12.5 Results of PBT and vPvB assessment** Not identified as a PBT/vPvB material.

**12.6 Other adverse effects** Very toxic to aquatic organisms with long lasting effects.



### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.  
 Do not dispose of together with household waste. Contact licensed waste disposal company.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not burn or use a cutting torch on the empty container.

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### 14. TRANSPORT INFORMATION

<b>14.1 UN number</b>	ADR/RID/ADN; IMDG; ICAO	3077
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, n.o.s (Trosclosene sodium)	
<b>14.3 Transport hazard class(es)</b>	ADR/RID/ADN Class	9
	ADR/RID/ADN Class	Class 9
	ADR Label No.	9
	IMDG Class	9
	ICAO Class/Division	9
	ICAO Subsidiary risk	9
	Transport labels	 
<b>14.4 Packing Group</b>	ADR/RID/ADN; IMDG; ICAO	III
<b>14.5 Environment hazards</b>	Marine Pollutant	Yes
<b>14.6 Special precautions for user</b>	EMS Tunnel restriction code	F-A, S-F (-)
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>		Not applicable.

### 15. REGULATORY INFORMATION

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

##### UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

##### EU Directives

Regulations (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. Regulation EU 453/2010 amending Regulation (EC) No 1907/2006.

##### Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

##### Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

#### 15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports (CSA/CSR) are not required for mixtures.

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Regulation (EU) 453/2010

### 16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended and Regulation EU 453/2010.

Tariff number: 38089420

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 (CLP):

Physical hazards: On basis of test data/Expert judgement.  
Health hazards: Calculation method  
Environmental hazards: Calculation method

#### Full text of H-statements referred to under sections 2 and 3

H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH031 Contact with acids liberates toxic gas.

#### Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.  
STOT: Single Target Organ Toxicity (Section 11).  
TWA: Time-weighted average. (Section 8).  
STEL: Short-term exposure limit. (Section 8).  
DNEL: Derived No Effect Level (Section 8).  
PNEC: Predicted No Effect Concentration (Section 8).  
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).  
vPvB: very Persistent and very Bioaccumulative. (Section 12).  
EC50: Effective Concentration, 50 percent. (Section 12).  
LC50: Lethal Concentration, 50 percent. (Section 11/12).  
LD50: Lethal Dose, 50 percent. (Section 11).

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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