

# PRODUCT SAFETY DATA SHEET

## 1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Trade Name: Effervescent Chlorine Tablets

Supplier: Chemical Solutions  
42 Kennel Lane  
Fetcham  
Surrey KT22 9PJ  
0870 2408893

## 2 INFORMATION ON INGREDIENTS

Product Description: Effervescent Chlorine Tablets.

Hazardous Ingredients:	CAS No	% Range	Symbol	Risk Phrases
Material or Component				
Troclosene Sodium	2893-78-9	53%	O, Xn, N	8,22,31,36/37,50,53
Adipic Acid	124-04-9	10-25%	Xi	36

## 3 HAZARDS IDENTIFICATION

Harmful if swallowed. Irritating to eyes and respiratory system. Contact with acid liberated toxic gas. On contact with moisture NaDCC readily decomposes to chlorine. Hypochlorous acid and Cyanuric acid.

## 4 FIRST AID MEASURES

Eyes: Flush out eyes with plenty of water for about 15 mins and obtain immediate medical attention.

Skin: Wash off with plenty of soap and water for 15 mins, and remove contaminated clothing and obtain medical attention if irritation persists.

Inhalation: Remove to fresh air if affected by any fumes. If symptoms persist obtain medical attention.

Ingestion: Do not induce vomit. Rinse mouth and give drinks of water or milk and obtain medical attention.

## 5 FIRE FIGHTING MEASURES

Extinguishing Media: Not Flammable itself but contact with combustible material may cause fire. Product combustible if dehydrated by drying. Decomposes above 250°C with release of chlorine and other toxic fumes. A thermal decomposition can be extinguished by flooding with copious amounts of water or by isolating material in open air and allowing it to be consumed. Use self-contained breathing apparatus, goggles and do not approach from leeward. Use Pressurised water or dry powder extinguishing media. Do not use fire extinguishers containing ammonium compound.

Protective Equipment for Fire Fighting: Breathing masks and goggles are required if involved in a fire.

Further Information: remove the product if it is safe to do so, before using water for fire fighting, in order to minimise hazards from release of toxic fumes. It will often be safer to let the fire burn itself out. Where it is decided to fight the fire with water, large quantities must be used. If insufficient water is used there may be an explosion hazard associated with hot damp material.

## 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear gloves, eye protection.

Environmental Precautions: Do not allow to enter natural water courses.

Spillages: Handle spillage carefully. Do not return spilled material to original container. If tablets are dry and uncontaminated, collect up into heavy duty plastic bags; where possible and suitable use material as originally intended. Wash away any residues with copious amounts of water. If tablets are contaminated they should be transferred to waste ground. Spread thinly and covered with a thin layer of earth: a smell of chlorine will be noted until the material has degraded. Keep people, vehicles and animals away from the disposal area. If tablets become damp they will effervesce evolving carbon dioxide and may decompose to give off chlorine fumes: transfer spillage to unsealed plastic bags avoiding any large masses of material within the bags and remove to waste ground for immediate treatment / disposal as above; avoid breathing fumes. Wash away residues with copious amounts of water.

If spillage of tablets is large (more than 100Kg) place into bins lined with polythene bags and eliminate in accordance with locally valid disposal regulations.

## **7 HANDLING AND STORAGE**

### Handling:

Wear chemical resistant eye protection, and protective gloves, and where dust in the breathing zone cannot be controlled with ventilation, wear an officially approved respirator for protection against airborne dust. Do not eat, drink or smoke when handling this material. Avoid contact with skin, eyes and clothing.

### Storage:

Store away from all incompatibles and combustibles. Store in a cool dry well ventilated place. Moisture sensitive. Keep container tightly closed. Keep out of reach of children. Never store damp or contaminated material.

## **8 PERSONAL PROTECTION/EXPOSURE CONTROLS**

Long term exposure limit to chlorine – (8 hrs TWA) 0.5ppm 1.5 mgm<sup>3</sup>

Short term exposure limit to chlorine – (10 minutes) 1ppm 2.9mgm<sup>3</sup>

Wear chemical resistant eye protection, and protective gloves, and where dust in the breathing zone cannot be controlled with ventilation, wear an officially approved respirator for protection against airborne dust. Use local exhaust ventilation where appropriate.

Do not eat, drink or smoke when handling this material.

Avoid contact with skin, eyes and clothing.

Wash skin immediately if contaminated. Remove and wash clothing and clean up equipment before re-use.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Colour:

White flat bevelled tablet

Odour:

Characteristic Chlorine odour

pH Value:

In solution 5.0-6.0 approx

Boiling Range (oC):

Melting Point (oC):

Flash Point (oC):

Not flashing

Auto Ignition Temp. (oC):

N/A

Explosive Limits in Air:

N/A

Vapour Pressure @20oC:

No data

Relative Density @20oC:

Water Solubility:

Soluble

Other Data:

Non oxidising

## **10 STABILITY AND REACTIVITY**

Conditions to Avoid:

Do not store on or near heat sources including naked flame. Avoid moisture, decomposes at temperatures above 240°C liberating toxic gases.

Materials to Avoid:

Contact with water liberates chlorine and with nitrogen compounds may cause explosion. Avoid organic material, oils, grease, sawdust, reducing agents, nitrogen containing compounds, calcium hypochlorite, other oxidisers, acids, alkalis, cationic and certain non-ionic surfactants

Hazardous Decomposition:

If involved in a fire noxious gases will be released.

## **11 TOXICOLOGICAL INFORMATION**

Eye Contact:

Irritant, Xi May cause impairment of vision or corneal damage.

Skin Contact:

Irritant, Xi

Ingestion:

May cause irritation of digestive tract.

Inhalation:

Irritant, Xi

Oral LD50 (rat)

ca 1825mg/Kg

Eye Irritation (rabbit) Severe Irritant

Rabbit dermal 1.D50 >20,000mg/Kg

This chemical is not considered to be carcinogenic by any reference source.

## **12 ECOLOGICAL INFORMATION**

Highly toxic to fish. Do not discharge into lakes, ponds, streams or public water unless in accordance with the permit official regulations.

## **13 DISPOSAL CONSIDERATIONS**

Product:

Dispose of in accordance with waste disposal regulations. If material is dry incineration is recommended.

Packages:

Dispose of in accordance with waste disposal regulations

**14 TRANSPORT INFORMATION**

Classification for Transport: Irritant, Xi  
UN Number:  
UN Proper Shipping Name:  
ADR/RID Class:  
ADR/RID Item No.:  
IMDG Packaging Group:  
IMDG Class:

**15 REGULATORY INFORMATION**

EEC Classification: Harmful, Irritant  
Risk Phrases: R22 Harmful if swallowed  
R31 Contact with acids liberates toxic gas  
R36/38 Irritating to eyes and skin.  
R50/53 very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment  
Safety Phrases: S8 Keep container dry  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek immediate medical advice  
S41 In case of fire and or explosion do not breathe fumes.

**16 OTHER INFORMATION**

This data sheet was prepared in accordance with Directive 91/155/EEC  
Conforms to CHIP 3 (2002)  
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