SPA-TIME Material Safety Data Sheet 3.25 Effervescent Chlorine Tablet REV.DATE 09/02

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product and Name and address of Company: **3.25g Effervescent Chlorine Tablet**

Spa-Time Limited **Intended use: Cleaning and Disinfection**

Unit C, Halesfield 10

Telford, Shropshire TF7 4QP **Tel: 01952 580880**

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health hazard within the meaning of EEC Directive 91/155.

Product name	CAS No	Conc Range	R Phrases	Symbol	MEL/OES
Troclosene Sodium	2893-78-9	53% w/w	8,22,31,36/37,50,53	O, Xn, N	OES
Adipic Acid	124-04-9	10-25% w/w	36	Xi	-

3. HAZARDS IDENTIFICATION

HARMFUL if swallowed. Irritating to eyes and respiratory system. Contact with acid liberates toxic gas. On contact with moisture, NaDCC readily decomposes to Chlorine. Hypochlorous Acid & Cyanuric Acid

4. FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of clean water for at least 15 minutes. If irritation Persists, seek medical attention.

Skin Contact: Promptly wash thoroughly with water for at least 15 minutes while removing contaminated clothing. Wash any contaminated clothing well before re-use.

Ingestion: Immediately rinse mouth then drink plenty of water or milk. Do not induce vomiting. Seek medical attention.

Inhalation: Move to fresh air. If irritation persists, seek medical attention.

5. FIRE-FIGHTING MEASURES

Special Fire or Explosion Hazards

Product is 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 the decomposing material in open air and allowing it to be consumes. Use self contained breathing apparatus and goggles. Do not approach from leeward.

Suitable Extinguishing Media: Pressurised water or dry powder. Do not use dry fire extinguishers containing ammonium compounds. **Other Recommendations:** Remove the product if it 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 is is decided to fight the fire with water, large quantities **must** be. If insufficient water is used there may be an explosion hazard associated with hot damp material.

6. ACCIDENTAL RELEASE MEASURES

Any spillage's should be cleaned up as soon as possible to prevent contamination with foreign material with which is may react – see section 10, stability and reactivity.

Handle spillage carefully, do not return spilled material to original container. **If tablets are dry and uncontaminated,** collect up into heavy-duty plastic bag; 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 think 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

Recommended Storage Conditions

Store away from all incompatibles and combustibles (see section 10). Store in a cool dry, well ventilated place. Moisture sensitive. Avoid high humidity levels. Do not allow water to get into container. Keep away from fire, heat, flame & direct sunlight. Keep container closed. Keep out of reach of children. Never store damp or contaminated material.

Recommended Handling Precautions	Avoid breathing any dust.
Use protective equipment recommended in section 8.	Wash thoroughly after handling.
Do not eat, drink or smoke when handling this material.	Avoid contact with eyes, skin & clothing

When handling large quantities of tablets, wear chemical resistant gloves and safety goggles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits (EH40/2002):

Long Term Exposure Limit to Chlorine – (8 hours TWA)	0.5ppm 1.5mgm ´³
Short Term Exposure Limit to Chlorine – (10 minutes)	1ppm 2.9mgm´³

Respiratory Protection:	Where any dust in the breathing zone cannot be controlled with ventilation wear an officially approved respirator (NIOSH/MSHA or equivalent agency) For protection against airborne dust.
Ventilation:	Use local exhaust ventilation where appropriate.
Eye Protection:	If airborne dust concentrations are high, wear appropriate protective goggles. Wash eyes with clean water where there is potential eye contact.
Skin Protection:	When handling large bulk quantities wear protective gloves. Wash immediately if skin is contaminated. Remove and wash contaminated clothing and clean up equipment before re-use. Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White flat bevelled tablet	Oxidising Properties:	Non oxidising
Odour:	Characteristic Chlorine Odour	Flash Point:	Not flashing
pH:	As is – not applicable	Flammability:	Non flammable
pH:	In solution – 5.6 – 6.0 approx	Autoflammability:	Not autoflammable
Solubility:	Freely soluble	Explosion Properties:	Not explosive

10. STABILITY AND REACTIVITY

Conditions to Avoid

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

Material to Avoid

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

11. TOXICOLOGICAL INFORMATION

Route of entry: Inhalation, skin contact & ingestion.

Inhalation of NaDCC is irritating to the nose, mouth, throat and lungs. **Ingestion** of NaDCC can cause irritation and/or burns to the gastrointestinal tract.

Skin & Eye Contact: with NaDCC can cause severe irritation and/or burns, characterized by redness, swelling and scab formation. May cause impairment of vision and corneal damage.

Toxicological Data: NaDCC

Acute Toxicity

Oral LD50(rat)	ca. 1825mg/kg	Eye Irritation (rabbit) Severe irritant
Rabbit dermal LD50		>20,000mg/kg

Carcinogenicity

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

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATION

Disposal should be done in accordance with all official regulations. If material is dry, incineration is recommended.

14. TRANSPORT INFORMATION

Keep container strictly dry

Keep away from FIRE, HEAT, FLAME & DIRECT SUNLIGHT. Keep out of reach of children.

UN Number:	IMDG Page:
Packing Group:	ADR/RID:
IMDG Code:	ICAO/IATA:

15. REGULATORY INFORMATION

Label for Supply: HARMFUL

Risk Phases:

R8	Contact with combustible material may cause fire
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gases
R36/37	Irritating to eyes and respiratory system

Safety Phrases

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

Regulatory References: The Chemicals (Hazard Information & Packing) Regulations 2002

16. OTHER INFORMATION

Risk phrases: 50/53 very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

The information herein is based on data considered to be accurate as of the date of preparation of the Material Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.