# SAFETY DATA SHEET

Product Name:

3.2g Chlorine Tablet

SDS Reference ST013

Version No.

Initial issue date

August 5<sup>th</sup>, 2014

**Revision date** 

# **1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY**

1.1 Product identifier

**1.4 Emergency Telephone** 

1.2 Use (s)

1.3 SDS Supplier

3.2g chlorine Tablet Disinfection and Chlorination Stonehouse Tablet Mfg. Co. Ltd. Nottingham Road Attenborough Nottingham NG9 6DT 01159 254552 (Office hrs)

 Telephone
 +44 (0) 1159 254552

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 +44 (0) 1159 224226

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 trevor@rising-hsande.co.uk

# 2. HAZARDS IDENTIFICATION

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#### 2.1 CLASSIFICATION OF THE SUBSTANCE

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Acute tox. 4 H302 Eye Irrit. 2 H319 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

#### 2.1.2 Classification according to EC Directive 67/548/EEC (CHIP 4)

Xn: R22, R31 Xi: R36/37 N: R50,53

#### 2.1.3 Additional information

See section 16 for full text of H statements and R phrases

#### 2.2 LABELLING ELEMENTS

#### 2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

 Pictogram(s):
 Signal word
 WARNING

 Hazard statement(s)
 H302
 HARMFUL IF SWALLOWED
 H319
 CAUSES SERIOUS EYE IRRITATION.

 H335
 MAY CAUSE RESPIRATORY IRRITATION.
 H410
 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

# 3.2g Chlorine Tablet

2. HAZARDS IDENTIFICATION		
Precautionary	P273	AVOID RELEASE TO THE ENVIRONMENT.
statement(s)	P280	WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE
		PROTECTION/FACE PROTECTION.
	P301+P330+P331	IF SWALLOWED. RINSE MOUTH. DO NOT INDUCE VOMITTING.
	P304+340	IF INHALED: REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION
		COMFORTABLE FOR BREATHING.
	P305+P351+P338	IF IN EYES. RINSE CAUSTIOUSLY WITH WATER FOR SEVERAL MINUTES.
		REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE
		RINSING.
	P337+313	IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.
		DISPOSE OF CONTENTS.
Supplementary	EUH031	CONTACT WITH ACIDS LIBERATES TOXIC GAS
labelling		

#### 2.3 Other hazards None known

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation	MIXTURE OF INORGANIC SUBSTANCES				
<u>Substances</u>					
Chemical name	CAS-No	EINECS/ELINCS	<b>Classification</b>	<b>Concentration</b>	
SODIUM DICHLOROISOCYANURATE (ANHYDROUS)	2893-78-9	220-767-7	CHIP: O: R8; Xn: R22, R31; Xi: R36/37; N: R50,53 CLP: Ox. Sol. 3 H272; Acute Tox. 4 H302; Eye Irrit. 2 H319; STOT. SE 3 H335; Aquatic Acute 1 H400; Aquatic Chronic 1 H410	50-65%	
ADIPIC ACID REACH Reg. no. 01-2119457561-38-0002	124-04-9	204-673-3	CHIP: Xi: R36 CLP: Eye Irrit. 2 H319	20-30%	

# **4. FIRST AID MEASURES**

4.1 Description of measures	
Inhalation	Remove casualty to fresh air. If necessary, seek medical advice.
Skin contact	Clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice.
Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides; consult an eye specialist/ophthalmologist.
Ingestion	If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary, seek medical advice.
4.2 Most important effects/symptoms	None known
4.3 Immediate/special treatment	Treatment as described above. Treat symptomatically and supportively.

# **5. FIRE FIGHTING MEASURES**

5.1 Extinguishing media	Water. Do not use dry chemical extinguisher containing ammonia compounds. Flooding				
	amounts of water may be required before extinguishment can be accomplished				

# **5. FIRE FIGHTING MEASURES**

5.2 Special hazards	When heated to decomposition, may release poisonous and corrosive fumes of nitrogen richloride, chlorine and carbon monoxide.		
5.3 Advice for fire fighters	Wear self-contained breathing apparatus. Cool containers with water spray. Avoid run-off water entering the drains (e.g. use barriers)		
6. ACCIDENTAL RELEASE MEASURES			
6.1 Personal precautions	In addition to respiratory protection, wear coveralls; chemical resistant gloves; chemical resistant footwear, and chemical resistant headgear for overhead exposure.		
6.2 Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.		
6.3 Methods and materials for cleaning up	Take up as appropriate, e.g. sweep or vacuum up, into tightly closed containers. Label container and dispose of as prescribed. If spill material is still dry, do not put water directly on this product as a gas evolution may occur. This material is heavier than water. This		

material is soluble in water. Stop flow of material into water source as soon as possible.

6.4 Reference to otherBegin monitoring for available chlorine and pH immediately.6.4 Reference to otherSee section 8 for personal protective equipment.sections

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Handle in accordance with good hygiene and safety practice. Keep container tightly closed. Keep away from incompatible substances.
7.2 Conditions for safe storage	Store in a cool, dry, well-ventilated area, away from incompatible materials (see 'materials to avoid'). Do not store at temperatures above 60°C/140°F. Product has an indefinite shelf-life limitation.
7.3. Specific end use(s)	Disinfection and Chlorination

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters	There are no occupational exposure limit values available. Comply with good practice.
8.2 Exposure controls	
Engineering controls	Provide adequate ventilation (e.g. local exhaust ventilation).
Personal protection	Observe normal standards for handling chemicals. Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below)
Eye protection	Safety goggles (EN 166 or 169) if risk of eye contamination.
Skin protection	Neoprene gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	When dusty conditions are encountered, wear a full-face respirator with chlorine cartridges for protection against chlorine gas and dust/mist pre-filter
Other protection	Protective overalls

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Basic physical and chemical properties

Physical form	Granular solid or tablet-form product.		
Colour	White		
Odour	Mild chlorine-like		
Odour Threshold	Not determined		

# 9. PHYSICAL AND CHEMICAL PROPERTIES

рН	< 6.0		
Boiling pt / range	Not determined		
Melting pt / range	From 150 °C		
Flash point	Not applicable		
Flammability	Not applicable		
Evaporation rate	Not applicable		
Explosion limits	Lower explosive limit: 10-15g/m <sup>3</sup> (data for adipic acid)		
Auto-ignition temperature	Not determined		
Decomposition temp.	From 230°C		
Density	Not determined		
Vapour pressure	Not applicable		
Vapour density	Not applicable		
Water solubility	>2.5g/100ml @ 20°C		
Explosive properties	Not determined		
Oxidising properties	Not determined		
Partition coeff. Log Oct/water	0.09 @ 20°C (data for adipic acid)		
9.2 Other information	None known		

# **10. STABILITY AND REACTIVITY**

10.1 Reactivity	No data available		
10.2 Chemical stability	Stable under normal conditions of handling. Do not package in paper or cardboard.		
10.3 Hazardous reactions	Hazardous exothermic polymerization will not occur.		
10.4 Conditions to avoid	Heating above decomposition temperature.		
10.5 Incompatible material	Organic materials, reducing agents, acids, bases, nitrogen containing materials, other oxidisers, dry fire extinguishers containing mono-ammonium compounds, oils, sawdust, grease		
10.6 Hazardous decomposition products	Nitrogen trichloride, chlorine, carbon monoxide.		

## **11. TOXICOLOGICAL INFORMATION**

#### 11.1 information on toxicological effects

Acute toxicity	$LD_{50}$ rat (oral)	735	mg/kg	Data for sodium dichloroisocyanurate
	LD <sub>50</sub> rat (oral)	> 5500	mg/kg	Data for adipic acid
	LD <sub>50</sub> rabbit (derm)	> 2000	mg/kg	Data for sodium dichloroisocyanurate
	LD <sub>50</sub> rabbit (derm)	7940	mg/kg	Data for adipic acid
	LC <sub>50</sub> rat (inhal)	> 150	mg/m <sup>3</sup>	Data for sodium dichloroisocyanurate (1 hour)
Dermal compatibility	Strongly irritant. Data for sodium dichloroisocyanurate			

# 11. TOXICOLOGICAL INFORMATION

Mucous membrane<br/>compatibilityStrongly irritant to eyesData for sodium dichloroisocyanurateFurther informationNone sensitising (guinea pig - data for sodium dichloroisocyanurate).

# 12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC50Fish (Rainbow trout)LC50Fish (Bluegill sunfish)LC50Daphnia magnaLC50Daphnia magna	<ul> <li>0.22 mg/l</li> <li>0.28 mg/l</li> <li>0.28 mg/l</li> <li>0.20 mg/l</li> <li>48 hr sodium dichloroisocyanurate</li> <li>46 mg/l</li> <li>48 hrs Data for adipic acid</li> </ul>		
12.2 Degradability	Not determined			
12.3 Bioaccumutive potential	LogBCF: 3.162 Data for adipic acid			
12.4 Mobility in soil	60% degradation 1-6 days (Data for adipic acid)			
12.5 PBT/vPvB assessment	Not applicable			
12.6 Other adverse effects	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.			

#### **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment measures

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Advice on disposal	If possible, recycle to supplier or approved recycling company. If not (e.g. designated as waste), dispose of in accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
Contaminated packaging	Treat empty containers in the same way as the product: if possible wash out thoroughly and recycle.

## **14. TRANSPORT INFORMATION**

14.1 United Nations number (ADR, IMDG, IATA)	UN 3077	
14.2 Proper shipping name (ADR, IMDG, IATA)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DICHLOROISOCYANURIC ACID SALTS)	
14.3 Transport class(s) (ADR, IMDG, IATA)	9	8
14.4 Packing group (ADR, IMDG, IATA)	III	
14.5 Environmental hazards (ADR, IMDG, IATA)	The product should be marked as a marine pollutant.	
14.6 Special procedures	Not applicable	~
14.7 Transport in bulk	Not applicable	

# **15. REGULATORY INFORMATION**

15.1 Safety, health and The product is classified in accordance with the Chemicals (Hazard Information and EC environmental regulations Regulation 1272/2008 (CLP). Other regulatory information and provisions are not applicable for this product. 15.2 Chemical safety Not applicable

assessment

# **16. OTHER INFORMATION**

Further information	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)
	Risk phrases and hazard statements referred to in sections 2/3
	R8: Contact with combustible material may cause fire. R22: Harmful if swallowed. R31: Contact with acids liberates toxic gas R36: Irritating to eyes R36/37: Irritating to eyes and respiratory system R50: Very toxic to aquatic organisms R53: May cause long term adverse effects in the aquatic environment H272: May intensify fire; oxidiser H302: Harmful if swallowed.
	<ul> <li>H319: Causes serious eye irritation.</li> <li>H335: May cause respiratory irritation.</li> <li>H400: Very toxic to aquatic life</li> <li>H410: Very toxic to aquatic life with long lasting effects</li> </ul>
Sources of data	Other suppliers' safety data sheets
Date of issue	05-08-2014

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. It should not be construed as guaranteeing specific properties.