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## SAFETY DATA SHEET

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### 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product Name:	<b>Sodium Dichloroisocyanurate Dihydrate Tablets</b>
Datasheet Number:	003 1. 3. 0
Chemical Name:	Dichloroisocyanuric acid
Synonyms:	Sodium Dichloroisocyanurate Dihydrate
Index Number:	613-030-01-7
CAS No.:	51580-86-0

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

Pool / spa treatment

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

Name of Supplier:	Plastica Ltd
Address of Supplier:	Perimeter House Napier Road St Leonards-on-Sea East Sussex TN38 9NY United Kingdom
Telephone:	+44 (0) 1424 857857
Fax:	
Responsible Person:	
Email:	info@plasticapools.com

#### 1.4 Emergency telephone number

09062 655005

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## 2 Hazards identification

### 2.1 Classification of the substance or mixture

- Classification (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
- EUH031
- Classification (67/548/EEC, 1999/45/EC)
- Xn; R22
- R31
- Xi; R36/37
- N; R50/53
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

### 2.2 Label elements

## 2 Hazards identification (....)



- Signal Word: Warning
- Symbols: GHS07, GHS09

### Hazard phrases

- Harmful if swallowed.
- Causes serious eye irritation.
- May cause respiratory irritation.
- Very toxic to aquatic life with long lasting effects.
- Contact with acids liberates toxic gas.

### Precautionary Phrases

- Store locked up/Keep out of reach of children.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- In case of fire: Do not breathe dust/fume/gas/mist/vapours/spray.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Avoid release to the environment.

### 2.3 Other hazards

- Marine pollutant

## 3 Composition/information on ingredients

### 3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Sodium Dichloroisocyanurate Dihydrate	98%	51580-86-0	220-767-7	H302, H319, H335, H400, H410, EUH031, R22, R31, R36/37, R50/53	GHS07, GHS09, Xn, N
Boric acid	2%	10043-35-3	233-139-2	H360FD R60, R61	GHS08 T

\*See Section 16

## 4 First aid measures

### 4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

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## 4 First aid measures (....)

do. Continue rinsing.

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Give plenty of water to drink
- Do NOT induce vomiting.

### 4 .2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- Causes irritation
- Causes nausea/vomiting
- Causes burning sensation

### 4 .3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

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## 5 Fire-fighting measures

### 5 .1 Extinguishing media

- In case of fire: use water for extinction

### 5 .2 Special hazards arising from the substance or mixture

- See Section 10.6

### 5 .3 Advice for firefighters

- Wear protective clothing as per section 8
- In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

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## 6 Accidental release measures

### 6 .1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Do not allow product to come into contact with water or moisture

### 6 .2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

### 6 .3 Methods and material for containment and cleaning up

- Collect as much as possible in clean container for reuse or disposal

### 6 .4 Reference to other sections

- See Section 7 & 8

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## 7 Handling and storage

### 7 .1 Precautions for safe handling

- Ensure adequate ventilation
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Do not allow dust to accumulate on surfaces and equipment

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## 7 Handling and storage (....)

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

- Store away from other materials.
- Store in a dry place. Store in a closed container.
- Store in a well-ventilated place. Keep cool.
- Protect from moisture.
- Keep away from acid.
- Keep away from foodstuff.

### 7.3 Specific end use(s)

- No information available.

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## 8 Exposure controls/personal protection

### 8.1 Control parameters

#### Sodium Dichloroisocyanurate Dihydrate

- WEL (short term) 0.5 ppm
- WEL (short term) 1.5 mg/m<sup>3</sup>

### 8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation

#### Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear rubber gloves
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- Wear apron or other light protective clothing



Respirator



Goggles



Gloves



Suit

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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Odour: chlorine
- Appearance: Solid, white, tablets
- pH - not known
- Boiling point - not applicable
- Vapour pressure - not applicable
- Vapour density - not known
- Melting point 240-250 deg C with decomposition
- Water solubility 262 g/l
- Specific gravity 1 g/cm<sup>3</sup>
- Not flammable but will support combustion
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known

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## 9 Physical and chemical properties (....)

- Viscosity - not applicable

### 9.2 Other information

- Bulk density 1.00 g/cm<sup>3</sup>

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## 10 Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

- Decomposes above 240-250 °C
- No decomposition if stored normally.

### 10.3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas.
- Contact with water liberates flammable gas

### 10.4 Conditions to avoid

- Avoid contact with water
- Keep away from heat and sources of ignition

### 10.5 Incompatible materials

- Incompatible with acids and alkalis
- Incompatible with reducing agents
- Incompatible with organics
- Nitrogen containing compounds
- Incompatible with oxidizing substances
- Calcium hypochlorite

### 10.6 Hazardous Decomposition Products

- Decomposition products include chlorine.
- Decomposition products may include nitrogen and carbon oxides

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## 11 Toxicological information

### 11.1 Information on toxicological effects

- LD50 (oral,rat) 1800 mg/kg
- Irritation to eyes (rabbit) : Severe
- Irritation to skin (rabbit) : Moderate

#### Inhalation

- Can cause damage to the mucous membranes
- Can cause damage to the respiratory system
- May cause dizziness
- Causes coughing
- In cases of severe exposure, delayed pulmonary oedema may develop

#### Contact with skin

- Causes irritation

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## 11 Toxicological information (....)

- In cases of severe exposure, redness may develop
- In cases of severe exposure, dermatitis may develop

### Contact with eyes

- Causes severe irritation
- Can cause damage to the eyes

### Ingestion

- Can cause damage to the stomach lining
- The ingestion of significant quantities may cause damage to digestive system

### Carcinogenicity

- No evidence of carcinogenic effects

### Teratogenicity

- No information available

### Mutagenicity

- No information available

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## 12 Ecological information

### 12.1 Toxicity

- Very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

- Not readily biodegradable

### 12.3 Bioaccumulation Potential

- No information available

### 12.4 Mobility in soil

- Large volumes may penetrate soil and contaminate groundwater
- Marine pollutant

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Other Adverse Effects

- See Section 12.1

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## 13 Disposal considerations

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Uncontaminated material may be returnable. Contact supplier

### Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

## 14 Transport information



Dangerous Substance ENVIRONMENTALLY HAZARDOUS

14.1 UN Number  
3077

14.2 UN Proper Shipping Name  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Dichloroisocyanuric acid)

14.3 Transport hazard class(es)  
9

14.4 Packing group  
III

14.5 Environmental hazards  
- Marine pollutant

14.6 Special precautions for user  
- See Section 7

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code  
- Not applicable

### Other information

#### Road/Rail (ADR/RID)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Dichloroisocyanuric acid)		
ADR UN No.:	3077		
ADR Hazard Class:	9	ADR Packing Group:	III
Tunnel Code:	E		

#### Sea (IMDG)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Dichloroisocyanuric acid)		
IMDG UN No.:	3077		
IMDG Hazard Class.:	9	IMDG Pack Group.:	III

#### Air (ICAO/IATA)

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Dichloroisocyanuric acid)		
ICAO Un No.:	3077		
ICAO Hazard Class.:	9	ICAO Packing Group.:	III

## 15 Regulatory information

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

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)

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## 15 Regulatory information (....)

- The List of Wastes (England) Regulations 2005 apply in the UK

15 .2 Chemical Safety Assessment

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## 16 Other information

Text of R and S phrase codes used in this safety data sheet:- EUH031: Contact with acids liberates toxic gas.; H302: Harmful if swallowed.; H319: Causes serious eye irritation.; H335: May cause respiratory irritation.; H360: May damage fertility or the unborn child.; H400: Very toxic to aquatic life.; H410: Very toxic to aquatic life with long lasting effects.; R22: Harmful if swallowed; R31: Contact with acids liberates toxic gas; R36/37: Irritating to eyes and respiratory system; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment; R60: May impair fertility; R61: May cause harm to the unborn child.

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 PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.