

SAFETY DATA SHEET



Product Name: **STABILISED CHLORINE GRANULES**

SDS Reference 001

Version No. 2

Revision No. ---

Authorisation date 30th November 2010

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name SODIUM DICHLOROISOCYANURATE DIHYDRATE GRANULES
Synonym (s) TROCLOSENE SODIUM DIHYDRATE, DICHLOR
Use(s) Chlorination of swimming pools
Company Identification **PLASTICA LTD**
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Napier Road, Telephone +44 (0) 1424 857857
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008



GHS07

Acute Tox. 4 *
Eye Irrit. 2
STOT SE 3

EUH031
H302
H319
H335

Contact with acid liberates toxic gas
Harmful if swallowed
Causes serious eye irritation
May cause respiratory irritation



GHS09

Aquatic Chronic 1

H410

Very toxic to aquatic life with long lasting effects

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Physical & Chemical:



HARMFUL

Health:

HARMFUL IF SWALLOWED.
CONTACT WITH ACIDS LIBERATES TOXIC GAS
IRRITATING TO EYES AND RESPIRATORY SYSTEM

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Environmental:

VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**DANGEROUS
FOR THE
ENVIRONMENT**

Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictogram



WARNING

EUH031	Contact with acid liberates toxic gas
H302	Harmful if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H410	Very toxic to aquatic life with long lasting effects

PREVENTION

P202	Do not handle until all safety precautions have been read and understood
P102	Keep out of reach of children
P232	Protect from moisture
P273	Avoid release to the environment

RESPONSE

P305+351+313	IF IN EYES: Rinse continually with water for several minutes; get medical attention
P370+260	In case of fire: Do not breathe dust/fumes/gas

STORAGE

P402+404	Store in a dry place; store in a closed container
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DISPOSAL

P501	Dispose of contents/container to hazardous waste collection point
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Classification & labelling

The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3.1]. Contains sodium dichloroisocyanurate dihydrate



HARMFUL



**DANGEROUS
FOR THE
ENVIRONMENT**

Risk phrases

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.

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Safety phrases	S2	KEEP OUT OF THE REACH OF CHILDREN.
	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.
	S60	THIS MATERIAL AND/OR ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.
	S61	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation	CHLORINATED ISOCYANURATE
CAS number	51580-86-0
EC number	220-767-7
EC Index number	613-030-01-7

4. FIRST AID MEASURES

General information

Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.
Inhalation	Remove casualty to fresh air and provide warmth and rest. If necessary, seek medical advice.
Skin contact	Clean areas of skin affected immediately with plenty of water. If necessary, seek medical advice.
Ingestion	Allow the patient to vomit on his own accord. Give copious water to drink; If necessary, seek medical advice.
First Aider	Avoid cross contamination

5. FIRE FIGHTING MEASURES

General hazard	THE PRODUCT WILL BURN IN A FIRE
Extinguishing media	To suit local surroundings (e.g. water spray, foam, dry chemical powder)
Extinguishing media not to be used	Small amounts of water.
Special exposure hazards	The thermal decomposition products released should be considered toxic if inhaled.
Protective equipment	Wear self-contained breathing apparatus.
Further information	Avoid run-off water entering the drains (e.g. use barriers) Cool endangered containers with water (to prevent container explosion).

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up) into a suitable container (e.g. polyethylene lined). Label container and dispose of as prescribed.
Environmental considerations	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
Further information	

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7. HANDLING & STORAGE

Advice on safe handling

Handle in accordance with good hygiene and safety practice. Only use with equipment made from ceramics, plastic or glass.
Keep the raising and deposition of dust to a minimum. Use in well ventilated area.

Storage conditions

Ensure adequate ventilation of the storage area. Keep containers tightly closed and dry away from acids and foodstuffs. Protect from sunlight. Do not store on side.

Further information

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls

Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls.

LTEL (8 hour TWA):	ppm	10	mg/m ³	Total inhalable dust (EH40/2005)
LTEL (8 hour TWA):	ppm	4	mg/m ³	Respirable dust (EH40/2005)
LTEL (8 hour TWA):	0.5 ppm	1.5	mg/m ³	WEL for chlorine (EH40/2005)
STEL (15 min):	1.0 ppm	2.9	mg/m ³	WEL for chlorine (EH40/2005)

Engineering controls

Ensure adequate ventilation of working area

Personal protection

Observe normal standards for handling chemicals.
Avoid breathing dust and contact with eyes
Wash hands before breaks and after work.
Wear personal protective equipment appropriate to the task (see below)

Eye protection

Safety goggles (i.e. EN 166 approved)

Skin protection

Natural rubber latex 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 NIOSH/OSHA full-face respirator with chlorine cartridge and dust pre filter.

Other protection

Protective overall.



9. PHYSICAL & CHEMICAL PROPERTIES

Physical form

Granules

Colour

White

Odour

Chlorine-like

pH

6.5

Boiling pt / range

°C

Melting pt / range

240-250 °C (decomposes)

Flash point

°C

Auto flammability

°C

Specific gravity

1 (bulk density)

Explosive limits

Lower: % (v/v) Higher: % (v/v)

Viscosity

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9. PHYSICAL & CHEMICAL PROPERTIES

Water solubility 262 g/l at 25°C

10. STABILITY & REACTIVITY

Stability Stable under normal conditions of handling.

Thermal decomposition 240-250°C with evolution of chlorine gas.

Conditions to avoid Moisture. Heating above decomposition temperature.

Incompatible Materials The product is incompatible with nitrogen compounds, calcium hypochlorite, acids, organic materials, combustible materials and reducing agents.

Hazardous reactions

Hazardous decomposition products Chlorine and nitrogen trichloride following contact with acids or water.

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD₅₀ rat (oral) 927 mg/kg
LD₁₀ man (oral) 3570 mg/kg

Dermal compatibility No data available

Mucous membrane compatibility Corrosive to tissue when inhaled.

Further information Ingestion may cause gastric ulceration and bleeding plus gastrointestinal irritation, lacrimation, weakness, lethargy and diarrhoea. Autopsy indicates G.I. tract and liver discolouration and kidney hyperaemia. May be toxic for reproduction.

12. ECOLOGICAL INFORMATION

Toxicity LC₅₀ Fish mg/l No data available

Persistence & Degradability Decomposes slowly in water.

Further information The product is very toxic to fish. Do not allow to get into wastewater or waterways; if this occurs, inform the relevant water authority at once.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.

Other Disposal Recommendations Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

United Nations number Not classified

Packaging group

IMDG code Not classified

RID / ADR Not classified

ICAO / IATA Not classified

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14. TRANSPORT INFORMATION

Marine pollutant The product should be marked as a marine pollutant

Proper shipping name

Emergency action code

Further information

15. REGULATORY INFORMATION

A Chemical Safety Assessment has not been carried out.

This product is subject to the Control of Major Accident Hazards (Amendment) Regulations 2005.

16. OTHER INFORMATION

Further information

Sources of data The Approved Supply List, EH40 (2005) and other suppliers' safety data sheets

Date of issue 30/11/10

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.