

REVISION DATE: 30th October 2007



## SAFETY DATA SHEET

### Sodium Dichloroisocyanurate Dihydrate

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	Sodium Dichloroisocyanurate Dihydrate
SYNONYMS, TRADE NAMES	Briswim Plus Chlorine Granules, , Troclosene Sodium Dihydrate, , DCCNa 55 Grain, , Fi-Clor Granules, , Chlorine Granules, , Clearon Plus,
APPLICATION	Biocides for water treatment
SUPPLIER	UNIVAR LTD 46 Peckover Street BRADFORD West Yorkshire United Kingdom BD1 5BD Tel: +44 1274 377000 Fax: +44 1274 377001 sds@univareurope.com
SDS No.	018
Emergency Contact Number (Office Hours)	+441274 377070

#### 2 HAZARDS IDENTIFICATION

Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to eyes and respiratory system. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R22 Xi;R36/37 R31 N;R50/53

##### ENVIRONMENT

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

##### HUMAN HEALTH

Harmful if swallowed. Irritating to eyes and skin.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO. 613-030-01-7

EC (EINECS) NO. 220-767-7

CAS-NO. 51580-86-0

##### COMPOSITION COMMENTS

The Data Shown is in accordance with the latest EC Directives.

#### 4 FIRST-AID MEASURES

##### GENERAL INFORMATION

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

##### INHALATION

Irritation of nose, throat and airway. Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

##### INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and take these instructions.

##### SKIN CONTACT

Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

REVISION DATE: 30th October 2007

## Sodium Dichloroisocyanurate Dihydrate

### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

This product is not flammable. Fire can be extinguished using: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.

### SPECIAL FIRE FIGHTING PROCEDURES

Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out.

### UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

### SPECIFIC HAZARDS

Chlorine.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

### ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

### STORAGE CLASS

Chemical storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Provide eyewash station.

### ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. All handling to take place in well-ventilated area.

### RESPIRATORY EQUIPMENT

Wear mask supplied with: Gas cartridge suitable for organic substances.

REVISION DATE: 30th October 2007

## Sodium Dichloroisocyanurate Dihydrate

### HAND PROTECTION

Use protective gloves made of: Neoprene. Nitrile. Rubber (natural, latex).

### EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Granular or Pellets		
COLOUR	White / off-white		
ODOUR	Chlorine.		
SOLUBILITY	Soluble in water		
MELTING POINT (°C)	240 - 250	BULK DENSITY	900 - 1000 kg/m <sup>3</sup>
pH-VALUE, DILUTED SOLUTION	6.0 - 6.4 @ 1%	FLASH POINT (°C)	>250
SOLUBILITY VALUE (g/100g H <sub>2</sub> O@20°C)	25		

## 10 STABILITY AND REACTIVITY

### STABILITY

Will decompose at temperatures exceeding 200°C.

### CONDITIONS TO AVOID

Oxidising, avoid contact with reducing agents. Generates very toxic gas in contact with acid.

### MATERIALS TO AVOID

Strong acids. Strong reducing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50                      1173 mg/kg (oral rat)

### INHALATION

In high concentrations, vapours may irritate throat and respiratory system and cause coughing. Harmful by inhalation.

### INGESTION

Gastrointestinal symptoms, including upset stomach. Harmful if swallowed.

### SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin. Harmful in contact with skin.

### EYE CONTACT

Irritating and may cause redness and pain.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

LC 50, 96 Hrs, FISH mg/l                      0.22

EC 50, 48 Hrs, DAPHNIA, mg/l                      0.55

### MOBILITY

The product is soluble in water.

## 13 DISPOSAL CONSIDERATIONS

REVISION DATE: 30th October 2007

## Sodium Dichloroisocyanurate Dihydrate

### GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). Absorb in vermiculite or dry sand, dispose in licensed hazardous waste.

## 14 TRANSPORT INFORMATION

GENERAL The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

## 15 REGULATORY INFORMATION

### LABELLING



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.

### 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 its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

### NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

## 16 OTHER INFORMATION

REVISION DATE 30th October 2007

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SDS NO. 018

### SAFETY DATA SHEET STATUS

Approved.

DATE 30th October 2007

SIGNATURE Jitendra Panchal