



# Safety Data Sheet

## Legal Disclaimer

The information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication. Nothing herein is to be construed as a warranty, express or implied. In all cases it is the responsibility of the users to determine the applicability of such information or the suitability of any products for their own particular purpose.

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## 1. Identification of Products

Product Name:	Guardex Advantage Chlorine Granules
Product Code:	20 35 529 500 20 35 529 010
Chemical name:	Trichloroisocyanuric acid (TCCA)
Other names:	Trichloro -1,3,5-triazinetriene, Trichloro-s-triazinetriene.

Distributed by: Golden Coast Ltd | Fishleigh Road | Roundswell Commercial Park West | Barnstaple | Devon | EX31 3UA | Tel: 01271 378100 | e-mail: swimmer@goldenc.com

## 2. Composition

Substance:	Trichloroisocyanuric acid
Weight %:	<73
EC Number:	201-782-8
CAS Number:	87-90-1
R Phrases:	8, 22, 31, 36/37, 50/53
Symbol:	O, Xn, N
WEL:	WEL

## 3. Hazard Identification

Harmful:

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



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## 4. First Aid Measures

### Skin Contact:

Wash with soap and cold water for a minimum of 15 minutes. If skin irritation persists, seek medical attention.

### Eye Contact:

Flush eyes with cold flowing water for at least 20 minutes. Seek medical attention immediately.

### Ingestion:

Drink large quantities of water. DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Seek medical attention

### Inhalation:

Remove person to fresh air, rest and keep warm. In severe cases seek medical attention.

### Notes to Doctor:

Probable mucosal damage may contraindicate the use of gastric lavage.

### Note:

When seeking medical attention, always show the product label.



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## 5. Fire Fighting Measures

### Suitable extinguishing media:

Flood with copious amounts of water.

### Unsuitable extinguishing media:

ABC or other dry chemical extinguishers since there is a potential for a violent reaction.

### Special exposure hazards in fire:

Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with high concentration of this product. Nitrogen trichloride can present an explosion hazard.

### Required special protective equipment for fire fighters:

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident

## 6. Accidental Release Measures

### Personal precautions:

Use appropriate personal protective equipment as detailed in section 8. In case of leak or spill evacuate area.

### Environmental precautions:

If material has entered surface drains, it may be necessary to inform local authorities.

### Methods for cleaning:

Mix with sand, transfer carefully to container and arrange for removal by disposal company. Wash the spill site thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.



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## 7. Handling and Storage

### Handling:

Strong oxidising material. DO NOT MIX WITH OTHER CHEMICALS.

The preparation of concentrated solutions or slurried is not recommended.

Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidisable organic material; ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; alkalis.

Use clean dry utensils. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion.

In case of contamination or decomposition, do not reseal container.

If possible, isolate container in open air or well-ventilated area.

### Storage:

Keep this product in original, closed container when not in use.

Store in a cool, dry, well ventilated area away from heat or open flame.

DO NOT contaminate water, food or feed by storage or disposal or cleaning of equipment.

DO NOT store above 52 °C



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## 8. Exposure Controls / Personal Protection

### Workplace Exposure Limits:

#### Chlorine

Exposure Limit:

8 hr TWA	ppm:	0.5
	mgm-3:	1.5
15 min STEL	ppm:	1
	mgm-3	2.9

Authority: EH40

### Respiratory protection:

Use respiratory protection for general dust inhalation protection.

### Hand protection (type of gloves, etc):

Wear suitable chemical resistant gloves when handling this product.

### Skin protection:

Wear suitable chemical resistant clothing to protect exposed skin.

### Eye protection:

Wear goggles or safety glasses with side shields when handling this product.

## 9. Physical and Chemical Properties

Physical State:	Solid
Odour and appearance:	White granules with slight chlorine odour.
pH:	3 – 3.5 (1% solution @ 25 oC)
Odour Threshold:	No data
Coefficient of Water/Oil Distribution:	No data
Melting point:	225 °C



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## 10. Stability and Reactivity

### Conditions to avoid:

High temperature. Poor ventilation. Contamination. Moisture/high humidity.

### Materials to avoid:

Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidisable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; other swimming pool/spa chemicals in their concentrated form.

### Hazardous decomposition products:

Chlorine containing gases can be produced, carbon dioxide, carbon monoxide.

## 11. Toxicological Information

Route of entry:	-
Inhalation:	Harmful if inhaled.
Ingestion:	Harmful if swallowed.
Skin & eyes:	Harmful if absorbed through the skin. This product is an eye and skin irritant.
Toxicity:	Oral LD50 406 mg/kg (rat)
Dermal LD50	7600 mg.kg (rabbit)
Carcinogenicity:	This product is not listed as a carcinogen

## 12. Ecological Information

This product is toxic to fish and aquatic organisms. DO NOT discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans or their waters unless in accordance with the applicable governmental requirements. DO NOT discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact the appropriate authority.



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## 13. Disposal Considerations

### Disposal Method:

DO NOT put product, spilled product or filled or partially filled containers into the waste or waste compactor. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated product is regulated according to local and national disposal legislation.

### Empty Containers:

DO NOT re-use container. Rinse thoroughly before discarding.

## 14. Transport Information

UN No.:	UN3077
Proper shipping name (PSN), including any technical name:	Environmentally Hazardous Substance, Solid, N.O.S., (contains Trichloroisocyanuric acid, dry).
Class/Division:	9
Packing Group (if any):	III
Hazard ID No.:	90
EAC:	2X
<b>IMDG CODE</b>	
Marine pollutant:	May be considered a marine pollutant.



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## 15. Regulatory Information

Product Name: Advantage Chlor  
 Preparation contains: Trichloroisocyanuric acid, dry  
 Symbol: Xn, N  
 Indication(s) of danger: 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:

S1/2 Keep locked up and out of the reach of children.  
 S8 Keep container dry.  
 S26 In case of contact with eyes, rinse immediately with water and seek medical attention.  
 S41 In case of fire and/or explosion do not breathe fumes.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately. (show the label where possible).  
 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 sheet.

### Warning:

DO NOT USE WITH OTHER PRODUCTS. MAY RELEASE DANGEROUS GASES (CHLORINE)

### Applicable EU provisions and associated UK legislation:

The Chemical (Hazards Information & Packaging) Regulations 2002.



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## 16. Other Information

### Recommended uses and restrictions:

No further information

### Further information sources:

HSE Guidance note CS17

### Sources of key data used to compile Safety Data Sheet:

Approved supply list. Approved carriage list, EH40, ACIGH tables.

## Note:

This data sheet does not constitute a user's assessment of workplace risk as required by HSW act, COSHH, management of health and safety at work regulations, or other health and safety legislation.