



Safety Data Sheet

Legal Disclaimer

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Revision Date 11.08.2009

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1. Identification of Products

Name of product:	Guardex Breakpoint Shock Express
Product Code:	20 35 533 120 - 2 Kg 20 35 533 150 - 5 Kg
Recommended Intended Purpose(s):	Product for disinfection and oxidation of pool water.

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

Hazardous Ingredients:

CAS No.:	7778-54-3
EC No.:	231-908-7
Name:	Calcium Hypochlorite
% Weight:	<75
Classification:	O R8; Xn; R22; R31; C R34; N R50

3. Hazard Identification

Classification:

Xn;	R22
C;	R34
N;	R50

R-phrases:

22	Harmful if swallowed
31	Contact with acids liberates toxic gas
34	Causes burns
50	Very toxic to aquatic organisms



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4. First Aid Measures

General information:

Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.
Take affected person into fresh air.

In case of inhalation:

Remove the casualty into fresh air and keep him immobile.
Refer for medical treatment.

In case of skin contact:

In case of contact with skin wash off immediately with plenty of water.

In case of eye contact:

In case of contact with eyes, rinse thoroughly with water.
Refer to medical treatment.

In case of ingestion:

Call for a doctor immediately. If swallowed, give water to drink.



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5. Fire Fighting Measures

Suitable extinguishing media:

Alcohol-resistant foam, Dry powder, Carbon dioxide

Extinguishing media which must not be used for safety reasons:

Water

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

In the event of fire the following can be released:

Hydrogen chloride (HCl)

Chlorine (Cl₂)

Special protective equipment for fire-fighters:

Use breathing apparatus with independent air supply.

Wear full protective clothing.

6. Accidental Release Measures

Personal precautions:

Ensure adequate ventilation. Avoid dust formation. Use personal protective clothing.

Environmental precautions:

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up:

Take up mechanically and send for disposal.

Additional Information:

Neutralise active chlorine with suitable materials (Sulphite, Thiosulphate or hydrogen peroxide aqueous solution).



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7. Handling and Storage

Advice on safe handling:

Use only in well-ventilated areas.

Advice on protection against fire and explosion:

Keep away from sources of ignition - No smoking. Keep at distance of acids, reducing agents and organic substances (e.g. wood, paper, fat).

Avoid entering of water in shortage.

Requirements for storage rooms and vessels:

Keep only in original container.

Advice on storage compatibility:

Do not store together with food. Do not store together with acids.

Further information on storage conditions:

Keep container tightly closed. Storage: cool and dry.



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8. Exposure Controls / Personal Protection

Respiratory protection:

Dust mask. Short term: filter apparatus, Filter P2

Hand protection:

Chemical-resistant gloves.

Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness.

Butyl rubber (butyl) - 0.7mm layer thickness.

In view of the many different types, the manufacturers' directions for use must be followed.

Eye protection:

Safety goggles with side protection.

General protective measures:

Do not inhale dust. Avoid contact with the eyes.

Hygiene measures:

At work do not eat, drink and smoke. Wash hands before breaks and after work.

9. Physical and Chemical Properties

Form:	Granules
Colour:	white
Odour:	typical, pungent



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Important health, safety and environmental information:

pH value in delivery state

Value: 9
Temperature: 20 °C
At: 50 g/l
Method: potentiometric
Remark: -

Decomposition Point:

Value: ca. 177 °C
Temperature: -
At: -
Method: -
Remark: -

Bulk density:

Value: 970 kg/m³
Temperature: -
At: -
Method: -
Remark: -

Solubility in water:

Value: 180 g/l
Temperature: 20 °C
At: -
Method: -
Remark: -



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10. Stability and Reactivity

Conditions to avoid:

Reactions with combustible substances.

Materials to avoid:

Reactions with acids. Reactions with oxidising agents. Reactions with organic substances.

Hazardous decomposition products:

Hydrogen chloride (HCl). Chlorine

Thermal decomposition:

Remark

Decomposition > 177°C.

Additional information:

Product may cause bleaching textiles, liners, paintings etc. Chlorine gas may decompose metals and is corrosive.



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11. Toxicological Information

Acute toxicity/Irritability/Sensitisation

LD 50 acute oral

Value/Validation:	1195 mg/kg
Species:	rat
Method:	-
Remark:	-

LD 50 acute dermal

Value/Validation:	> 2000 mg/kg
Species:	rabbit
Method:	-
Remark:	-

Irritability skin:

Corrosive

Irritability eye:

Strong corrosive

Skin sensitisation:

Non-sensitising

12. Ecological Information

General regulation:

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

Harmful to fish and bacteria.



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13. Disposal Considerations

Waste code No.:

06 03 14

Name of waste:

solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13.

Recommendations for the product:

In accordance with regulations for special waste, must be taken to a special waste disposal.

Recommendations for packaging:

Uncontaminated packaging may be taken for recycling.

Recommended cleansing agent:

Water.



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14. Transport Information

Land and inland navigation transport ADR/RID

UN 1759 Corrosive Solid,
N.O.S. (Calcium Hypochlorite, Hydrated),
8,
II

Marine transport IMDG

UN 1759 Corrosive Solid,
N.O.S. (Calcium Hypochlorite, Hydrated),
8,
II

Air transport ICAO/IATA-DGR

UN 1759 Corrosive Solid,
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15. Regulatory Information

Remarks for classification:

The product is classified and labeled in accordance with EC directives/German regulations on dangerous substances.

Classification:

C	Corrosive
N	Dangerous for the environment

R-phrases:

22	Harmful if swallowed.
31	Contact with acids liberates toxic gas.
34	Causes burns.
50	Very toxic to aquatic organisms.

S-phrases:

1/2	Keep locked up and out of reach of children.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29/56	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labeling for certain preparations:

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



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16. Other Information

Sources of key data used:

Results of own researches and examinations
Literature informations
Toxicity studies, NIOSH-Tox-Data
National legislation and regulation

Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!):

R 22	Harmful if swallowed.
R 31	Contact with acids liberates toxic gas.
R 34	Causes burns.
R 50	Very toxic to aquatic organisms.
R 8	Contact with combustible material may cause fire.

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.