

SAFETY DATA SHEET

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier Gold Horizons Spa Biofilm Destroyer.

1.2 Relevant Identified uses of the substance or mixture and uses advised against
 Uses: Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
 Unit 2, The Park
 Stoke Orchard
 Bishops Cleeve
 Gloucestershire
 GL52 7RS

Telephone: +44 (0) 8712 229081

Fax: +44 (0) 8712 229083

E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours)

+44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008****Hazard Class****Hazard Statements**

Ox. Sol. 2

H272

Acute Tox. 4 *

H302+H312+H332

Eye Dam. 1

H318

STOT RE 2

H373

For the full text of the H statements mentioned in this section see Section 16.

Most important adverse effects

Human Health:

See section 11 for toxicological information

Physical & Chemical Hazards:

See section 9 for physicochemical information

Potential environmental effects:

See section 12 for environmental information

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols:



Signal word:

Danger

Hazard statements:

H272

May intensify fire; oxidiser

H302+H312+H332

Harmful if swallowed, in contact with skin or if inhaled.

H318

Causes serious eye damage.

H373

May cause damage to organs through prolonged or repeated exposure.

P220

Keep/Store away from clothing/combustible materials.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

EUH029

Contact with water liberates toxic gas.

EUH031

Contact with acids liberates toxic gas.

2.3 Other Hazards

No data available

3. Composition/information on ingredients

3.1 Mixtures

sodium hydrogensulphate

| % | CAS No | ENICS No | Reach No | CLP Phrases |
|-----------|-----------|-----------|--------------|--------------|
| 50 - 80 % | 231-665-7 | 7681-38-1 | 016-046-00-X | Dam. 1; H318 |

Sodium chlorite

| | | | | |
|--------|-----------|-----------|---|--|
| 5-15 % | 231-836-6 | 7758-19-2 | - | |
|--------|-----------|-----------|---|--|

Ox. Sol. 1, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Acute 1, Ox. Sol. 1, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Acute 1, (M-Factor = 1); H271 H310 H301 H314 H373 H400 EUH032 EUH071

4. First Aid measures

4.1 Description of first aid measures

General information

Reacts with acids, with formation of chlorine dioxide (ClO₂).

Remove contaminated soaked clothing immediately and dispose of safely. Wash body carefully (bath or shower).

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

Seek medical treatment immediately.

After contact with skin

Wash off immediately with soap and plenty of water.

Seek medical treatment immediately.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment immediately.

After ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Seek medical treatment immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Harmful in contact with skin.

Harmful by inhalation and if swallowed.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

In case of fire: Dry fire-extinguishing substance

DO NOT USE: Water. Contact with water liberates toxic gas (ClO₂)

5.2 Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible. (ClO₂)

5.3 Advice for fire-fighters

In case of fire, wear suitable respiratory equipment with positive air supply

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator.

Avoid contact with skin, eyes and clothing. Use personal protective clothing.

Keep away noninvolved persons. Ensure adequate ventilation. Do not breathe vapours and aerosols.

6.2 Environmental precautions

Avoid release to the environment. Do not discharge into the drains or bodies of water.

Inform competent authority about release into the sewage, ground or into waters

6.3 Methods and materials for containment and cleaning up

Risk of fire if the water component dries out. Do not allow to dry. Dilute with plenty of water.

6.4 Reference to other sections

See Section 1 for emergency contact information

See Section 7 & 8 for information on Personal protective equipment

See section 13 for waste treatment information

7. Handling and storage

7.1 Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with the skin and the eyes.

Follow the directions.

Further information on handling

Take the usual precautions when handling with chemicals

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage rooms and vessels

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

Keep out of the reach of children.

Advice on storage compatibility

Keep at a distance of acids, reducing agents and organic substances (e.g.wood, paper, fat). Keep away from metals

Further information on storage conditions

Keep from freezing. Protect from heat and direct solar radiation.

7.3 Specific end uses

Deep Clean Spa & Hot Tub, Cleaning agent

8. Exposure control/personal protection

8.1 Control parameters

8.2 Exposure controls

Provide sufficient air exchange and/or exhaust in work rooms.

Protective and hygiene measures

At work do not eat, drink, smoke or take drugs. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes and skin.

Respiratory protection

In case of insufficient ventilation, especially in confined areas.

Half mask with a particle filter P3 (European Norm EN 143 = former DIN 3181).

Hand protection

Chemical-resistant gloves (EN 374).; PVC, PE

Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

Eye protection

Wear eye/face protection

Skin protection

Protection clothes

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|----------------------|--------------------------|
| Appearance | Tablets |
| Colour | White to yellowish |
| Odour | Chlorine |
| pH-Value (at 20 °C): | 6-7 (0,0025 % Solution) |

Changes in the physical state

| | |
|-------------------------|-------------------|
| Flash point: | Not applicable |
| Lower explosion limits: | Not applicable |
| Upper explosion limits: | Not applicable |
| Ignition temperature: | Not applicable |
| Density (at 20 °C): | No data |
| Water solubility: | Reacts with water |

9.2 Other Information No data available

10. Stability and reactivity**10.1 Reactivity**

Reacts with acids, with formation of chlorine dioxide (ClO₂). Contact with water liberates toxic gas (ClO₂)

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reacts with acids, with formation of chlorine dioxide (ClO₂). Contact with water liberates toxic gas (ClO₂)

10.4 Conditions to avoid

Keep away from combustible material.
Protect from atmospheric moisture and water

10.5 Incompatible materials

Reacts with acids, with formation of chlorine dioxide (ClO₂). Contact with water liberates toxic gas (ClO₂)

10.6 Hazardous decomposition products

Reacts with acids, with formation of chlorine dioxide (ClO₂). Contact with water liberates toxic gas (ClO₂)

11. Toxicological Information**11.1 Information on toxicological effects****Acute toxicity**

Harmful in contact with skin. (Proved by toxicological expert statement.)

Harmful by inhalation and if swallowed

| Sodium chlorite | | | | 7758-19-2 |
|---------------------------|------|-----------|--------|-----------|
| Acute oral toxicity | LD50 | 132 mg/kg | Rat | |
| Acute dermal toxicity | LD50 | 107 mg/kg | Rabbit | |
| Acute inhalation toxicity | LC50 | 0,29 mg/l | Rabbit | 4hrs |

Irritation and corrosivity

Causes serious eye damage.

Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure.

| | |
|------------------------|--------------------------|
| Carcinogenicity: | Not Classified |
| Teratogenicity : | No information available |
| Mutagenicity: | Not classified |
| Reproductive toxicity: | Not Classified |

Further information

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

12. Ecological Information

12.1 Toxicity

| Sodium chlorite | | | | 7758-19-2 |
|--------------------------|------|------|------|------------------|
| Acute fish toxicity | LC50 | 50,6 | mg/l | 96hrs |
| Acute crustacea toxicity | EC50 | 0.29 | mg/l | 48hrs |

12.2 Persistence and degradability

Inorganic product.

12.3 Bioaccumulative potential

Not determined

12.4 Mobility in soil

Not determined

12.5 Results of PBT and PvB

Not determined

12.6 Other adverse effects

Hazardous water pollutant.

Further Information

When discharging diluted application solutions into the public sewage system, local regulations (e.g. pH value) must be observed. Do not release undiluted into wastewater or drainage ditch.

13. Disposal Considerations

13.1 Waste treatment methods

Should not be disposed of with household waste.
Remove in accordance with local official regulations.

Waste disposal number of waste from residues/unused products

060704 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of halogens and halogen chemical processes; solutions and acids, for example contact acid

Classified as hazardous waste.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

14. Transport Information

14.1 UN Number

UN1496

14.2 UN proper shipping name

SODIUM CHLORITE, mixture

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Label, classification code; Hazard ID; Tunnel Restriction code)
Transport category:
Limited quantity:

5.1
5.1; O2; 50; E
2
1 kg



Marine transport (IMDG)

Hazard label:
Special Provisions:
Limited quantity:
EmS:

5.1
-
1 kg
F-H, S-Q



14. Transport Information

Air transport (ICAO)

| | |
|--|-------|
| Hazard label: | 5.1 |
| Limited quantity Passenger: | 2.5kg |
| IATA-packing instructions - Passenger: | 558 |
| IATA-max. quantity - Passenger: | 5kg |
| IATA-packing instructions - Cargo: | 562 |
| IATA-max. quantity - Cargo: | 25kg |



14.4 Packaging Group

II

14.5 Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6 Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

15. Regulatory information

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

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Other information

Full text of H-statements referred to under sections 2 and 3

H271 May cause fire or explosion; strong oxidiser;

H272 May intensify fire; oxidiser;

H301 Toxic if swallowed;

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled;

H310 Fatal in contact with skin;

H314 Causes severe skin burns and eye damage;

H318 Causes serious eye damage;

H373 May cause damage to organs through prolonged or repeated exposure;

H400 Very toxic to aquatic life;

EUH029 Contact with water liberates toxic gas;

EUH031 Contact with acids liberates toxic gas;

EUH032 Contact with acids liberates very toxic gas;

EUH071 Corrosive to the respiratory tract.

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Rev 2

Indicates updated section.