

SAFETY DATA SHEET

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

- 1.1 Product Identifier** Chemical Algae Controller
CAS No: 63449-41-2
EINECS 264-151-6
- 1.2 Relevant Identified uses of the substance or mixture and uses advised against**
Uses: Algae Prevention in pool water
- 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 Category	Target Organs	Hazard Statements
Skin Corrosion	Category 1C		H314

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Corrosive	R34

For the full text of the R phrases 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: H314 Causes severe skin burns and eye damage

Precautionary statements: P102: Keep out of reach of children
P264: Wash thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P101 If medical advice is needed, have product or label to hand.
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
Use biocides safely. Always read the label before use.

Hazardous components which must be listed on the label dimethylbenzylammonium chloride

2.3 Other Hazards PBT: This substance is not identified as a PBT substance.

Trade Name: Swimfresh Algae Controller

3. Composition/information on ingredients

3.1 Mixture

Chemical nature: Liquid

Hazardous ingredients:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES

EINECS	CAS No:	CLP Classification	Amount %
264-151-6	63449-41-2	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr 1B: H314; Aquatic Acute 1:H400	1 - 10

4. First Aid measures

4.1 Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Eye bathing equipment should be available on the premises

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: Corrosive. In combustion emits toxic fumes

5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Further Information: Do not inhale explosion gases or combustion gases

6. Accidental release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions:

Notify the police and fire brigade immediately. Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. For personal protection see Section 8.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up:

Clean up should be dealt with only by qualified personnel familiar with the specific substance. Absorb with liquid-binding material (sand, dry earth, universal binders) Keep in suitable closed containers for disposal.

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling:

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Do not mix with other products in their concentrated form. Do not handle in a confined space.

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers:

Prevent any seepage into the ground

Advice on protection against fire and explosion:

No special measures required

Storage Conditions

Store in cool, dry conditions in well sealed receptacles

Suitable Packaging

Must only be kept in original packaging

Advice on common storage:

Keep away from food, drink and animal feedstuffs. Store away from metals.
Store away from oxidising agents

Storage Temperature:

No further information available

7.3 Specific end uses

Specific use(s)

No data available

Trade Name: Swimfresh Algae Controller

8. Exposure control/personal protection

8.1 Control parameters

Workplace exposure limits: No data available

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: Liquid

Colour: Blue

Odour: Characteristic

pH @ 20°C: 6.0 - 9.0

Density @ 20°C: 0.990 - 1.010

Water solubility: Miscible in all proportions

9.2 Other Information

No data available

10. Stability and reactivity

10.1 Reactivity

Advice: Stable under recommended transport or storage conditions

10.2 Chemical stability

Advice: Stable under normal conditions

10.3 Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below

10.4 Conditions to avoid

Conditions to avoid Heat

10.5 Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

In combustion emits toxic fumes

11. Toxicological Information

11.1 Information on toxicological effects

Toxicity Values

Route	Species	Test	Value	Units
Oral	Rat	LD50	795	mg/kg
Dermal	Rat	LD50	1560	mg/kg

Hazardous ingredients:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES

Route	Species	Test	Value	Units
IVN	Mouse	LD50	16	mg/kg
Oral	Mouse	LD50	150	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous calculated

Primary Irritant effect:

On the skin: There may be redness and irritation at the site of the contact

On the eyes: There may be redness and irritation. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth & throat

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure

Sensitization:	No information available
Carcinogenic	No information available
Mutagenic	No information available

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate**Eye contact:** Corneal burns may occur. May cause permanent damage**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure

12. Ecological Information

12.1 Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Daphnia	48H EC50	0.003	mg/l

12.2 Persistence and degradability Biodegradable**12.3 Bioaccumulative potential** No bioaccumulation potential**12.4 Mobility in soil** Readily absorbed into soil**12.5 Results of PBT and PvB** This substance is not identified as a PBT substance**12.6 Other adverse effects** Negligible ecotoxicity

Trade Name: Swimfresh Algae Controller

13. Disposal Considerations

13.1 Waste treatment methods

Product:

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains.

Contaminated packaging:

Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue No:

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information

14.1 Transport class:

UN1760

14.2 UN proper shipping name

CORROSIVE LIQUID, N.O.S .
(ALKYL(C8-18)DIMETHYLBENZYLAMMONIUM CHLORIDE; ALKYL(C12-16) DIMETHYLBENZYLAMMONIUM CHLORIDE)

14.3 Transport hazard class(es)

Class	8
Classification Code	C9
Hazard label	80
Transport Category	3
Tunnel Code	E

14.4 Packaging Group

III

14.5 Environmental hazards

Environmentally Hazardous	No
Marine Pollutant	Yes

14.6 Special precautions for user

No further information available

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

No further information available

15. Regulatory information

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

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the mixture by the supplier

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R21/22: Harmful in contact with skin and if swallowed.
 R22 Harmful if swallowed.
 R34 Causes burns.
 R50: Very toxic to aquatic organisms.

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

H302 Harmful if swallowed
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life

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.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
 ICAO: International Civil Aviation Organization
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS European Inventory of Existing Commercial Chemical Substances.
 CAS: Chemicals Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

Revision	Date	By	Amendment
1	19/02/07	Linda Brueford	Created
2	15/09/09	Lorna Murray	Sections 2 & 3 swapped round to comply with REACH, change from PG I to PG II, inclusion of new Environmentally Hazardous Mark for transport for packagings larger than 5kg and other minor editorial amendments.
3	03/02/10	Linda Brueford	Classification changed to include N (Dangerous to the environment). GHS label elements added and other minor editorial amendments
4	16/11/11	Linda Brueford	Updated to 2011 European requirements and other minor editorial amendments
5	15/11/13	Linda Brueford	Minor editorial amendments

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

1.1 Product Identifier

Chemical	Stabilised Chlorine Granules
Weight	2 kg / 5 kg / 10 kg
Code	CLGRAN02CK/CLGRAN05CK/CLGRAN10CK

1.2 Relevant Identified uses of the substance or mixture and uses advised against
 Uses: For disinfection of pool and spa water.

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 Category	Target Organs	Hazard Statements
Acute Tox. 4 *			H302
Eye Irrit. 2			H319
STOT SE 3			H335
STOT SE 3			H400
Aquatic Acute 1			H410
Aquatic Chronic 1			

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Harmful	R22
Irritant	R31
	R36/37
Dangerous for the environment	R50/53

For the full text of the R phrases 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 toxicological information.
Potential environmental effects:	See section 12 for toxicological information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



(continued on Page 2)

Trade Name: Stabilised Chlorine Granules

2. Hazard Identification...cont

Signal word: Warning

Hazard statements: H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH031 Contact with acid liberates toxic gas

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

Precautionary statements: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children
P262 Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P405 Store locked up
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Hazardous components which must be listed on the label Sodium Dichloroisocyanurate Dihydrate

2.3 Other Hazards No further information is available.

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Granules
Chemical Name Sodium Dichloroisocyanurate Dihydrate,

CAS No	EC No	Index No	%	H/R Phrases
51580-86-0	220-767-7	613-030-01-7	100%	H302, H319, H335, H400, H410 R22, R31, R36/37, R50/53

4. First Aid measures

4.1 Description of first aid measures

General Advice: Immediately remove any clothing soiled by the product
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

After Inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After Skin Contact: Immediately rinse with water. Call a doctor immediately.

After eye contact: Rinse opened eye for several minutes under running water. Call a doctor immediately.

After Swallowing: Do not induce vomiting; call for medical help immediately. Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed No further information available

4.3 Indication of immediate medical attention & special treatment needed No further information available

Trade Name: **Stabilised Chlorine Granules**

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water. Water spray. Carbon dioxide
Unsuitable extinguishing media: Extinguishing powder. Foam.

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire fighting: Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Nitrogen oxides (NO_x) ; Hydrogen chloride (HCl). During heating or in case of fire poisonous gases are produced

5.3 Advice for fire-fighters

Special protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. Mouth respiratory protective device.

Further Information: Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Avoid formation of dust. Ensure adequate ventilation. Mount respiratory protective device

6.2 Environmental precautions

Keep contaminated washing water and dispose of appropriately. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

6.3 Methods and materials for containment and cleaning up

Sweep up, avoiding generation of dust, then immediately spread as a thin layer in an uncontaminated, dry open area, to avoid the possibility of hot spots forming. Gradually hose to drain ensuring large dilution. DO NOT store or transport swept up material. DO NOT return spilled material to original container. Do not add small amount of water to material. Where a spill has occurred in a confined space or an unventilated building and the material is damp and evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread solid with soda ash. For large spills notify Emergency Services.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling

Strong oxidising agent. DO NOT MIX WITH OTHER CHEMICALS. Mix only with water. Never add water to product. Always add product to water. Use clean dry dispensing equipment.

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas: Store only in the original receptacle
Advice on protection against fire: Normal measures for preventive fire protection
Advice on common storage: Do not store together with acids.
Further information on storage: Store only in the original receptacle.

7.3 Specific end uses

No further information is available.

Trade Name: **Stabilised Chlorine Granules**

8. Exposure control/personal protection

8.1 Control parameters

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical and biological agents

Sodium Dichloroisocyanurate Dihydrate.		
State	8 hour TWA	15 min STEL
UK	0.07 mg/m ³	0.02mg/m ³

8.2 Exposure controls

Engineering measures

Fume cupboard required when vapours/aerosol are generated.
Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device Filter AB2P2.
Filter AB2P3. In case of intensive or longer exposure use self-contained respiratory protective device

Hand protection

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Eye protection

Wear safety glasses approved to standard EN 166.

Skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact

Environmental exposure controls

Dispose of in accordance with all applicable local and national regulations.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Granules
Colour:	Whitish
Odour:	Characteristic chlorine
pH @ 20°C:	6
Melting Point	250 °C
Flammability (solid, gaseous):	Product is not flammable
Ignition temperature:	250 °C
Decomposition temperature:	250 °C
Explosive properties:	Product does not present an explosion hazard
Vapour pressure	Not applicable
Bulk density at 20 °C	1000 kg/m ³
Solubility in / Miscibility with water	@ 25 °C: 250 g/l
Solvent content:	
Organic solvents	0.00%
VOC (EC)	0.00%
Solids content:	100.00%

9.2 Other Information

No further information

Trade Name: **Stabilised Chlorine Granules**

10. Stability and reactivity

- 10.1 Reactivity** No information available
- 10.2 Chemical stability** No information available
- 10.3 Possibility of hazardous reactions** Reacts with oxidizing agents; strong alkali; amines; flammable substances; acids releasing chlorine; reducing agents. Strong exothermic reaction with acids.
- 10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials** Warning! Do not use together with other products. May release dangerous gases (chlorine).
- 10.6 Hazardous decomposition products** Hydrogen chloride (HCl); Chlorine and Nitrogen oxides (NOx)

11. Toxicological Information

11.1 Information on toxicological effects

Sodium Dichloroisocyanurate Dihydrate,				
Route	Species	Test	Value	Units
Oral	Rat	LD50	>1,400	mg/kg
Dermal	Rabbit	LD50	>2000	mg/kg
Inhalative	Rat	LC50	950	mg/kg

Primary Irritant effect:

- On the skin: No irritant effect
On the eyes: Strong irritant with the danger of severe eye injury.

Sensitization: Sensitizing effect by skin contact is possible by prolonged exposure.

Carcinogenic No information available

Mutagenic No information available

Further information No further information available

12. Ecological Information

12.1 Toxicity

Species	Test	Value	Units
Selenastrum capricornutum (Grünalge)	EC50	0.5	mg/l
daphnia	EC50	0.17	mg/l
Oncorhynchus mykiss (Regenbogenforelle)	LC50	0.13	mg/l

- 12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil** No further relevant information available.
- 12.5 PBT and PvB assessment** PBT: This substance is not identified as a PBT substance.

Ecotoxicity values:

Species	Test	Value	Units
Activated sludge (OECD 209)	EC10	1000	mg/l

12.6 Other adverse effects

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

Trade Name: **Stabilised Chlorine Granules**

13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

14. Transport Information

- 14.1 UN Number** 3077
- 14.2 UN proper shipping name** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (SODIUM DICHLOROISOCYANURATE DIHYDRATE) MARINE POLLUTANT
- 14.3 Transport hazard class(es)**
- | | |
|---------------------|---------|
| Class | 9 |
| Classification Code | M7 |
| Hazard label | 90 |
| Transport Category | 3 |
| Tunnel Code | E |
| EMS No | F-A,S-F |
- 14.4 Packaging Group** III
- 14.5 Environmental hazards**
- | | |
|---------------------------|-----|
| Environmentally Hazardous | Yes |
| Marine Pollutant | Yes |
- 14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** N/a

15. Regulatory information

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

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.2 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- | | |
|--------|---|
| 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 |

(continued on Page 7)

Trade Name: **Stabilised Chlorine Granules**

16. Other information

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

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH031 Contact with acids liberates toxic gas.

Further information

- S1/2 Keep locked up and out of 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

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

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	Date	By	Amendment
1	22/11/2013	Linda Brueford	Created

SAFETY DATA SHEET

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

1.1 Product Identifier
 Chemical pH Increaser (Soda Ash)
 Weight 5 kg
 Code SFPHI05/4

1.2 Relevant identified uses of the substance or mixture and uses advised against
 Uses: The preparation of pH regulation

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 Category	Target Organs	Hazard Statements
Eye Irrit	Category 2		H319

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Irritant	R36

For the full text of the R phrases 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 toxicological information.
 Potential environmental effects: See section 12 for toxicological information.

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

Hazard symbols:



Signal word:

Warning

Hazard statements:

H319 Causes serious eye irritation

Precautionary statements:

P102 Keep out of reach of children
 P260 Do not breathe dust

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Hazardous components which must be listed on the label

sodium carbonate

2.3 Other Hazards

No other information is available.

Trade Name: pH Plus

3. Composition/Information on ingredients

3.1 Substances

Chemical Name	CAS-No.	EC- No	Index No	%	H & S
sodium carbonate	497-19-8	207-838-8	011-005-00-2	92%	H318: R41

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If inhaled: Remove casualty to fresh air; consult a doctor if symptoms persist

In case of skin contact: Wash off with plenty of water. Generally the product does not irritate the skin

In case of eye contact: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

If swallowed: Clean mouth with water and drink afterwards plenty of water. DO NOT INDUCE VOMITING. Seek immediate medical attention if symptoms persist.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available.
Effects: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat Symptomatically.
No further information available.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Dry powder, CO2 or water spray
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire: Gives off irritating or toxic fumes (or gases) in a fire. Vapours may ignite. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback

5.3 Advice for fire-fighters

Special protective equipment: In the event of fire, wear self-contained breathing apparatus.

Further Information: Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as per Section 8
Evacuate the area and keep personnel upwind
Avoid breathing gas / mist / fumes. Avoid contact with skin and eyes
Eye wash bottles should be available

(continued on Page 3)

Trade Name: pH Plus

6. Accidental release Measures

6.2 Environmental precautions

Environmental precautions: Do not allow to enter public sewers and watercourses

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up. Place in sealed and labelled appropriate containers. Remove contaminated material to safe location for subsequent disposal.

6.4 Reference to other sections

See sections 7 & 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid breathing dust. Avoid contact with eyes. Wash thoroughly with soap and water after handling.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Store in original container

Advice on protection against fire and No special measures required

Further information on storage conditions: Keep this product in original, closed container when not in use. Store in a cool, dry, well-ventilated area. Keep this product out of the reach of children.

Advice on common storage: Keep away from food, drink and animal feeding stuffs.

7.3 Specific end uses

Specific use(s) The preparation of pH regulation

8. Exposure control/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8.

General information:

Use in a well ventilated area

Personal protective equipment

Respiratory protection

In case of inadequate ventilation wear respiratory protection

Hand protection

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Eye protection

Wear safety glasses approved to standard EN 166.

Skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact

Environmental exposure controls

Dispose of in accordance with all applicable local and national regulations.

Trade Name: pH Plus

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Crystalline powder
Colour:	White
Odour:	Odourless
pH @ 20°C:	11.5
Melting Point	854°C
Boiling point/boiling range:	> 999°C
Flash point:	Not applicable
Relative vapour density:	2.533 g/cm ³
Water solubility:	212 g/l
Partition coefficient:n-octanol/water:	Not known
Explosive properties:	Product is not explosive.

9.2 Other Information No further information available

10. Stability and reactivity

10.1 Reactivity	No information available.
10.2 Chemical stability	No decomposition if stored normally
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	Avoid formation of dust. Keep away from heat and moisture.
10.5 Incompatible materials	Incompatible with acid
10.6 Hazardous decomposition products	Stable under recommended storage conditions.

11. Toxicological Information

11.1 Information on toxicological effects

Toxicity Values

Route	Species	Test	Value	Units
Oral	Rat	LD50	4,090	mg/kg

Primary Irritant effect

On the skin: Powder may irritate skin
On the eye: Irritant

Carcinogenic There is no evidence that this substance has any carcinogenic properties.

Mutagenic There is no evidence that this substance is mutagenic

Sensitization: No sensitizing effects known

Additional toxicological information:

If ingested may cause discomfort

If inhaled irritating to mucous membranes and respiratory tract

Trade Name: pH Plus

12. Ecological Information

12.1 Toxicity Etoxicity

LC50	96h	fish	100/1000	mg l
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- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available
- 12.5 Results of PBT and PvB : Not a PBT according to REACH Annex XIII
- 12.6 Other adverse effects No data available

13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment ,dispose to an authorised waste collection point

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

14. Transport Information

- 14.1 UN Number Not applicable
- 14.2 UN proper shipping name Not applicable
- 14.3 Transport hazard class(es) Not applicable
- 14.4 Packaging Group Not applicable
- 14.5 Environmental hazards Clean up even minor leaks or spills if possible without unnecessary risk
- 14.6 Special precautions for user See Section 7
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable



15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.
This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006
- 15.2 Chemical Safety Assessment
No further information

Trade Name: pH Plus

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R36 Irritating to eyes

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

H319 Causes serious eye irritation

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

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.

• Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS European Inventory of Existing Commercial Chemical Substances.

CAS: Chemicals Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Revision	Date	By	Amendment
1	03/01/08	Linda Brueford	Created
2	30/11/10	Linda Brueford	GHS label elements added and other minor editorial amendments
3	09/11/11	Linda Brueford	Updated to European regulations
4	20/10/13	Chemregs	Minor amendments
5			

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

1.1 Product Identifier	Chemical	Sodium Hydrogen Sulfate
	Weight	7kg / 25kg
	Code	SFPHR07/2 - SFPHR25
1.2 Relevant Identified uses of the substance or mixture and uses advised against		
Uses:	Swimming Pool water treatments	
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 Category	Target Organs	Hazard Statements
Eye Dam	1		H318

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Irritant	R41

For the full text of the R phrases 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: H318: Causes serious eye damage

Precautionary statements:

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection

Response: P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P308+310: If exposed or concerned: Immediately call a POISON CENTRE or doctor/physician

P501: Dispose of contents / container to an approved waste disposal plant

Hazardous components which must be listed on the label Not relevant

2.3 Other Hazards Results of PBT and vPvB assessment not required (inorganic)

Trade Name: pH Minus

3. Composition/information on ingredients

3.1 Substance

Chemical nature: Granular

Chemical Name	CAS-No.	EC-No.	Index-No.	%	H & R
Sodium Hydrogen Sulfate	7681-38-1	231-665-7	16-046-00->	92%	H318 : Xi

Reach : 01-2119552465-36-0003

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation persists seek medical advice

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. If eye irritation persists get medical advice.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Additional Information: IF exposed or concerned: Get medical advice/attention
If medical advice is needed, have product container or label at hand

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause respiratory irritation

Skin contact: The ingestion of significant quantities may cause gastro-intestinal disturbances

Eye contact: Risk of serious damage to eyes (R41)

Ingestion: Possible redness of affected areas

4.3 Indication of immediate medical attention and special treatment needed

Treatment: No further information available

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Dry powder, CO2

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Fire Hazard: Non-flammable substance

Specific Hazards during fire: Burning produces noxious and toxic fumes. Sox, NaOx
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
The pressure in sealed containers can increase under the influence of heat.
Vapours may form explosive mixture with air
Vapours are heavier than air and may spread along the floor.

5.3 Advice for fire-fighters

Advice for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions: Wear protective clothing as per Section 8
Evacuate the area and keep personnel upwind
Avoid breathing gas / mist / fumes. Avoid contact with skin and eyes
Eye wash bottles should be available

6.2 Environmental precautions Do not allow to enter public sewers and watercourses

6.3 Methods and materials for containment and cleaning up

Methods and materials for Prevent further leakage or spillage if safe to do so.
Place in sealed and labelled appropriate containers. Remove contaminated material to safe location for subsequent disposal.

6.4 Reference to other sections For personal protection see Section 8
For disposal considerations see Section 13

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling: Avoid contact with skin and eyes. Prevent formation of dust.
Ensure the presence of a shower and eyewash in the vicinity.

Hygiene measures: Keep away from food, drink & animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the day.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas: Store in dry, cool, well-ventilated area. Keep only in original container.
Protect from heat.

7.3 Specific end uses No information available

8. Exposure control/personal protection**8.1 Control parameters**

Exposure Limits No information available

8.2 Exposure controls

Engineering measures Engineering controls should be provided which maintain airborne concentrations as low as practicable

Personal protective equipment

Personal protective equipment The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Eye protection Tightly fitting safety goggles (EN166)

Skin and body protection Wear apron or other light protective clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems. Avoid subsoil penetration.

Trade Name: pH Minus

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Crystals, granular
Colour:	White, light yellow
Odour:	none
pH @ 20°C:	1.3
Melting point:	315°C
Boiling point:	Not known
Flash point:	Not applicable
Evaporation rate:	Not known
Relative vapour density:	1.5 kg/m ³
Water solubility:	ca 1080 g/l 2 @ 25°C
Partition coefficient:n-octanol/water:	-2,2 (KOWWIN
Thermal decomposition:	460°C
Explosive properties:	Not explosive

9.2 Other Information No further information available

10. Stability and reactivity

10.1 Reactivity	No information available
10.2 Chemical stability	Hygroscopic
10.3 Possibility of hazardous reactions	Reacts with metals liberating hydrogen
10.4 Conditions to avoid	Avoid dust formation, moisture and heat. See also Section 7
10.5 Incompatible materials	Incompatible with metals. Contact with metals liberates flammable gas
10.6 Hazardous decomposition products	Decomposition products may include oxides of nitrogen, sulphur and carbon

11. Toxicological Information

11.1 Information on toxicological effects

Primary Irritant effect:

On the skin: This product is an irritant to the skin.

On the eyes: Corrosive to eyes; contact can cause corneal burns.

Sensitization:	No further information available
Carcinogenic	No evidence of carcinogenic effects
Mutagenic	No further information available

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely

Ingestion: There may be nausea, vomiting, and gastro-intestinal disturbances

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Trade Name: pH Minus

12. Ecological Information

12.1 Toxicity Etoxicity effects

LC50	96h	fish	7960 mg/l	mg l
EC50	48h	daphnia	1766 mg/l	mg/l

- 12.2 Persistence and degradability** Hydrolysis in water
- 12.3 Bioaccumulative potential** Low bioaccumulation potential
- 12.4 Mobility in soil** Highly mobile in soil
- 12.5 Results of PBT and PvB assessment** Not a PBT according to REACH Annex XIII
- 12.6 Other adverse effects** No information available

13. Disposal Considerations

13.1 Waste treatment methods

- Product:** Disposal together with normal waste is not allowed. Handle with care. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging:** Dispose of in accordance with local regulations
- European Waste Catalogue No:** Classified as hazardous waste according to European Union regulation. (06 03 03) Waste codes should be assigned by the user based on the application for which the product was used.

14. Transport Information

Not classified as dangerous in the meaning of transport regulation

- 14.1 UN Number** Not applicable
- 14.2 UN proper shipping name** Sodium Hydrogen Sulfate
- 14.3 Transport hazard class(es)** Not applicable
- 14.4 Packaging Group** Not applicable
- 14.5 Environmental hazards** Not applicable
- 14.6 Special precautions for user** Not applicable

15. Regulatory information

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

15.1.1 EU- Regulations

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.1.2 National Regulations

WGK

1

- 15.2 Chemical Safety Assessment** A chemical safety assessment has been carried out for this substance

16. Other information

Full text of R-phrases referred to under sections 2 and 3
 R41 Risk of serious damage to eyes

Full text of H-statements referred to under sections 2 and 3
 Eye Dam 1
 H318 Causes serious eye damage

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.

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 RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
 ICAO: International Civil Aviation Organization
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS European Inventory of Existing Commercial Chemical Substances.
 CAS: Chemicals Abstracts Service (division of the Americal Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 WGK:

Revision	Date	By	Amendment
1	18/01/07	Linda Brueford	Created
2	12/10/11	Linda Brueford	Classification changed to C (Corrosive). GHS label elements added and other minor editorial amendments
3	04/10/11	Linda Brueford	Updated to European requirements and other minor editorial amendments
4	20/10/2013	Chemregs	CAS No changed and mionor editorial amendments