# Complete Pool Controls

### SAFETY DATA SHEET

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

**1.1 Product Identifier** Sodium Hydrogen Sulfate

Trade Name: pH Minus

Other Names: Sodium Bisulphate, Dry Acid Reach Registration No: 01-2119552465-36-0003

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.

Most important adverse effects

Human Health: See section 11 for toxilogical information
Physical & Chemical Hazards: See section 9 for physicochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Hazard symbols:

Labelling according to Regulation (EC) No 1272/2008

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 Name** CAS-No. EC-No. Index-No. % H & R 7681-38-1 231-665-7 )16-046-00-X Sodium Hydrogen Sulfate 93 - 100% H318

Full text of H- and EUH-phrases: see section 16.

3.2 Mixtures Not applicable

## 4. First Aid measures

## 4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: Move to Fresh air. Call a physician immediately

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

Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. In case of eye contact:

Remove contact lenses. Call a physician immediately.

Do NOT induce vomiting. Drink plenty of water. Consult a physician. If swallowed:

IF exposed or concerned: Get medical advice/attention Additional Information:

If medical advice is needed, have product container or label at hand

## 4.2 Most important symptoms and effects, both acute and delayed

May cause irritation of respiratory tract. Inhalation may provoke the following Inhalation:

symptoms: Shortness of breath, cough, dry/sore throat.

May be irritating. Skin contact may provoke the following symptoms: Redness, pain, Skin contact Causes serious eye damage. Eye contact may provoke the following symptoms:

Eye contact Redness, pain.

Ingestion may cause irritation to mucous membranes. Ingestion may provoke the Ingestion

following symptoms: Abdominal pain, burning sensation.

## 4.3 Indication of immediate medical attention and special treatment needed

No further information available Treatment

## 5. Fire fighting measures

# 5.1 Extinguishing media:

Suitable media: Use dry chemical, CO2, water spray or alcohol resistant foam.

Unsuitable media: High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Fire Hazard Non-flammable substance

Specific Hazards e: 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

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

tanks with water spray

Trade Name: pH Minus

## 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

Cleaning up Prevent further leakage or spillage if safe to do so.

Place in sealed and labelled appropriates containers. Remove contaminated materiak to safe location for subsequent disposal. Local authorities should be advised if significant spillages cannot be contained

**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: Storage and handling must take place in conformity with national laws:

GO70STORA025. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Ensure that eye flushing systems and safety showers are located close

to the working place.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before re-use. Keep

working clothes separately.

## 7.2 Conditions for safe storage, including any incompatibilities.

Storage areas: Store in dry, cool, well-ventilated area. Keep containers dry and tightly closed to

avoid moisture absorption and contamination. Keep container closed and dry. Keep

away from open flames, hot surfaces and sources of ignition

**7.3 Specific end uses**No information available

#### 8. Exposure control/personal protection

## 8.1 Control parameters

**Exposure Limits** No information available

PNEC		
Freshwater	11.09	mg/l
Marinewater	1.11	mg/l
Intermittent release	17.66	mg/l
Sediment (Freshwater)	40.2	mg/kg sediment dw
Sediment (Marinewater)	4.02	mg/kg sediment dw
Soil 1.54	1.54	mg/kg soil dw
STP	800	mg/l

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Trade Name: pH Minus

## 8. Exposure control/personal protection

### 8.2 Exposure controls

## 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 Respirator with a full face mask (EN136). Recommended Filter type: ABEK/P2

(EN141). Wear self-contained breathing apparatus when entering area unless

atmosphere is proved to be safe (EN138/269 - EN137 - EN139).

Hand protection Rubber gloves (EN 374): PVC. The selection of specific gloves for a specific

application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of

the supplier of gloves.

Eye protection Tightly fitting safety goggles (EN166)

Skin and body protection Chemical-resistant overalls.

Thermal hazard protection: Not required under normal use. Use dedicated equipment.

exhaust ventilation. Ensure that eyewash stations and safety showers are

close to the workstation location. Eye wash bottle with pure water. Organisational measures to prevent /limit releases, dispersion and

exposure. See also section 7.

**Environmental exposure controls** 

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

## 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 applicable Flammability (solid, gas) Not applicable Not applicable **Explosion limits** Vapour pressure Not applicable Not applicable Vapour density Relative density 1,4 - 1,5 kg/l

Water solubility: ca 1080 g/l 2 @ 25°C

Solubility in other solvents

Partition coeffcient:n-octanol/water:

Autoignition temperature

Not applicable

-2,2 (KOWWIN
Not applicable

Thermal decomposition: 460°C

Explosive properties: Not applicable

**9.2 Other Information** No further information available

Trade Name: pH Minus

## 10. Stability and reactivity

10.1 Reactivity See also section 10.5

10.2 Chemical stability Hydroscopic

10.3 Possibility of hazardous reactions Acidic aqueous solution. Gives off hydrogen by reaction with metals.

10.4 Conditions to avoid Avoid dust formation, moisture and heat. See also Section 7

Hydrolyses in presence of: Water, acidic aqueous solution. Gives off 10.5 Incompatible materials

hydrogen by reaction with metals. See also section 7

Possible decomposition products are: Acidic aqueous solution. Gives off

hydrogen by reaction with metals. Vapours may form explosive mixture with 10.6 Hazardous decomposition products

## 11. Toxilogical Information

## 11.1 Information on toxilogical effects

Acute toxicity: inot classification.) Not classified (Not classified due to data which are conclusive although insufficient for

Sodium hydrogensulphate (7681-38-1)						
LD50	oral - rat	2140 mg/kg	sulfuric acid			
LC50	inhalation/4h - rat	> 2400 mg/m <sup>3</sup>	sodium sulphate			

Not classified (Not classified due to data which are conclusive Skin corrosion/irritation

although insufficient for classification.) pH: 1,3

Serious eye damage/irritation Causes serious eye damage. pH: 1,3

Not classified (Not classified due to data which are conclusive Respiratory or skin sensitisation

although insufficient for classification.)

Not classified (Not classified due to data which are conclusive Germ cell mutagenicity

although insufficient for classification.)

Not classified (Not classified due to data which are conclusive Carcinogenicity

although insufficient for classification.)

Not classified (Not classified due to data which are conclusive Reproductive toxicity

although insufficient for classification.)

Not classified (Not classified due to data which are conclusive Specific target organ toxicity (single exposure)

although insufficient for classification.)

exposure)

Specific target organ toxicity (repeated

Aspiration hazard

Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Not classified (Not classified due to data which are conclusive

although insufficient for classification.)

## **Further information**

Watery solution: same properties as H2SO4. Fine granules, crystals or powder. Fine substance that can cause the irritation of the airways, with coughing and the contraction of the airways. In contact with water the product forms sulphuric acid that can cause burns.

Trade Name: pH Minus

## 12. Ecological Information

## 12.1 Toxicity

**Etoxicity effects** Toxic to aquate organisms

Sodium hydrogensulphate (7681-38-1)							
LC50	96h	fish	7960	mg l			
EC50	48h	daphnia	1766	mg/l			
IC50	72h	algae	1900	mg/l			

12.2 Persistence and degradability Hydrolysis in water

**12.3 Bioaccumlative potential** Low bioaccumulation potential

Partition coefficient: n-octanol/water -2,2 (KOWWIN)

**12.4 Mobility in soil** Highly mobile in soil

12.5 Results of PBT and PvB assessment Results of PBT and vPvB assessment: Not required (inorganic)

**12.6 Other adverse effects**No information available

## 13. Disposal Considerations

Product:

13.1 Waste treatment methods

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

Classified as hazardous waste according to European Union regulation.

European Waste Catalogue No: (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

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## 15. Regulatory information

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

## 15.1.1 EU- Regulations

TSCA (US): OK AICS (Australia): OK DSL (Canada): OK ENCS (Japan): OK ECL (Korea): OK PICCS (Philipines): OK Authorisations/Restrictions on use: Not applicable.

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation1907/2006/EC. : None.

## 15.1.2 National Regulations

## Germany

VwVwS Annex reference: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen: None of the components are listed

SZW-lijst van mutagene stoffen: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen –Vruchtbaarheid :None of the components are listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen –Ontwikkeling : None of the components are listed

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

## 16. Other information

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.

## Rev 6

Indicates updated section