

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
Index No: 016-046-00-X
CAS No: 7381-38-1
EC No: 231-665-7
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
Restrictions: At this time we do not have information on use restrictions
- 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)

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

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Trade Name: pH Minus

2. Hazard Identification

Hazardous components which must be listed on the label

Not relevant

2.3 Other Hazards

Results of PBT and vPvB assessment not required (inorganic)

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Granular

Chemical Name

Identification Numbers

Amount %

Sodium Hydrogen Sulfate

Index No: 016-046-00-X

CAS No: 7381-38-1

EC No: 231-665-7

Reach : 01-2119552465-36-0003

92%

Xi; 41

Eye Dam 1, H318

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.

If Inhaled: In case of accident by inhalation; remove casualty to fresh air and keep at rest. Call a physician immediately

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. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed: Clean mouth with water and drink plenty of water. If swallowed, do not induce vomiting - seek medical advice. If a person vomits when lying on his back place him in the recovery position.

Additional Information: First Aider needs to protect himself
See also section 8
Never give anything by mouth to an unconscious person
Show this safety data sheet to the doctor in attendance
Treat symptomatically
When symptoms persist or in all cases of doubt seek medical advice

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause irritation of the respiratory tract. Inhalation may provoke the following symptoms: shortness of breath, cough, dry/sore throat

Skin contact: May be irritating. Skin contact may provoke the following symptoms; redness; pain.

Eye contact: Causes serious eye damage. Eye contact may provoke the following symptoms; redness, pain.

Ingestion: May cause irritation to mucous membranes. Ingestion may provoke the following symptoms: Abdominal pain, burning sensation

4.3 Indication of immediate medical attention and special treatment needed

Treatment: No further information available

Trade Name: pH Minus

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

Non-emergency personnel: Evacuate personnel to safe areas. 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 or spray mist. For personal protection see Section 8.

Emergency responders: Only qualified personnel equipped with suitable protective equipment may intervene.

6.2 Environmental precautions

Environmental precautions: Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Prevent further leakage or spillage if safe to do so.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations. 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
Avoid contact with mucous membranes, Avoid contact with skin and eyes.
Avoid dust formation. Do not breathe dust.
If during handling the risk of contact with the product originates, 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. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Store in dry, cool, well-ventilated area. Keep containers away from wet floors. Regularly check for damage to packaging. Keep container tightly closed and dry. Keep away from open flames, hot surfaces and the 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 Water

Aqua (freshwater) 11,09 mg/l
 Aqua (marine water) 1,11 mg/l
 Aqua (intermittent, freshwater) 17,66 mg/l

PNEC (Sediment)

Sediment (freshwater) 40,2 mg/kg dwt
 Sediment (marine water) 40,2 mg/kg dwt

PNEC (Soil)

PNEC soil 1,54 mg/kg dwt

PNEC (STP)

Sewage treatment plant 800 mg/l

8.2 Exposure controls**Engineering measures**

Ensure adequate ventilation. Use only in area provided with exhaust ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Eyewash bottles with pure water. Organisational measure to prevent/limit releases, dispersion and exposure. See also Section 7.

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. Respirator with full face mask (EN136). Recommended Filter type: ABEK/P2. If there is a risk of oxygen deficiency use appropriate pressurised breathing protection. (EN138/269 - EN137 - EN139).

Hand protection

Rubber gloves (EN374) - 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 being 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.

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems
 Avoid subsoil penetration
 Comply with applicable community environmental protection legislation

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

Form:	Crystals, granular
Colour:	White, light yellow
Odour:	none
Odour Threshold:	Currently we do not have any information from our supplier about this.
pH @ 20°C:	1.3
Melting point:	315°C
Boiling point:	not applicable
Flash point:	not applicable
Evaporation rate:	not applicable
Flammability (solid, gas)	not applicable
Upper explosion limit:	not applicable
Lower explosion limit:	not applicable
Vapour pressure:	not applicable
Relative vapour density:	1,5 - 1,5 kg/l
Water solubility:	ca 1080 g/l 2 @ 25°C
Partition coefficient:n-octanol/water:	-2,2 (KOWWIN)
Ignition temperature:	Currently we do not have any information from our supplier about this.
Thermal decomposition:	460°C
Viscosity, kinematic:	Currently we do not have any information from our supplier about this.
Explosive properties:	not applicable
Oxidising properties:	not applicable

9.2 Other Information No further information available

10. Stability and reactivity**10.1 Reactivity**

Reactivity See also section 10.5

10.2 Chemical stability

Stability hygroscopic

10.3 Possibility of hazardous reactions

Hazardous reactions: Acidic aqueous solution. Gives off hydrogen by reaction with metals

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid Hydrolyses in presence of : Water Acidic aqueous solution. Gives off hydrogen by reaction with metals. See also Section 7

10.6 Hazardous decomposition products

Hazardous decomposition products: Possible decomposition products are: Acidic aqueous solutions. Gives off hydrogen by reaction with metals. Vapours may form exposure mixture with air.

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

Acute Toxicity:	Not Classified (due to data which is conclusive although insufficient for classification)		
Product:	Sodium hydrogensulphate	CAS No: 7681-38-1	
	LD50	Oral	Rat 2140 mg/kg sulfuric acid
	LC50	Inhalation	Rat >2400 mg/m ³ sodium sulphate
	ATE	Oral	2490,000 mg/kg
Skin corrosion/irritation:	Not Classified (due to data which is conclusive although insufficient for classification) pH: 1.3		
Serious eye damage	Causes serious eye damage pH: 1.3		
Respiratory or skin sensitisation	Not Classified (due to data which is conclusive although insufficient for classification) pH: 1.3		
Carcinogenicity	Not Classified (due to data which is conclusive although insufficient for classification)		
Reproductive toxicity	Not Classified (due to data which is conclusive although insufficient for classification)		
Specific target Organ toxicity (Single exposure)	Not Classified (due to data which is conclusive although insufficient for classification)		
Specific target Organ toxicity (repeated exposure)	Not Classified (due to data which is conclusive although insufficient for classification)		
Aspiration hazard	Not Classified (due to data which is 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 the water the product forms sulphuric acid that can cause burns.

12. Ecological Information**12.1 Toxicity**

Etoxicity effects water risk 1 (mild water pollutant)
Toxic to species living in water

Product:	Sodium hydrogensulphate	CAS No: 7681-38-1	
	LC50	96h	fish 7960 mg/l
	EC50	48h	daphnia 1766 mg/l

12.2 Persistence and degradability

Persistence and degradability Hydrolysis in water

12.3 Bioaccumulative potential

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

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Trade Name: pH Minus

12. Ecological Information

12.4 Mobility in soil

Mobility Very mobile in soil

12.5 Results of PBT and PvB assessment

PBT /vPvB Results of PBT and vPvB assessment not required (inorganic)

12.6 Other adverse effects

Further information No data 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

ISR (UK) TSCA (US0; OK AICS (Australia): OK DSL (Canada): OK ENCS (Japan) OK ECL (Korea): OK PICCS (Philippines): OK

Authorisations/Restrictions on use: Not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the Reach Regulation 1907/2006/EC: None

15.1.2 National Regulations

WGK 1

15.2 Chemical Safety Assessment

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.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuse par Route (European Agreement concerning the

RID: Règlement 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 American 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