



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.

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	016-046-00->	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 @ 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	Hydroscopic
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

Etotoxicity effects

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

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- 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

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• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses 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
4	20/10/2013	Chemregs	CAS No changed and minor editorial amendments