



SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

| | |
|----------------------|-------------------------|
| Product Name: | pH Decreaser |
| Datasheet Number: | SP 202 1. 2. 0 |
| Product Part Number: | SP202 |
| Chemical Name: | Sodium hydrogensulphate |
| Synonyms: | Sodium bisulphate |
| Index Number: | 016-046-00-X |
| CAS No.: | 7681-38-1 |

1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

| | |
|----------------------|---|
| Name of Supplier: | Total Pool Chemicals Ltd |
| Address of Supplier: | Unit 1, Pool Bank Business Park High Street, Tarvin Chester CH3 8JH UK |
| Telephone: | +44 (0)1829 740290 |
| Fax: | +44 (0)1829 741855 |
| Responsible Person: | Steve Carder |
| Email: | sales@totalpool.co.uk |

1.4 Emergency telephone number

+44 (0)1829 740290 (Office Hours)

2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Eye Dam. 1, H318
- Classification (67/548/EEC, 1999/45/EC)
- Xi; R41
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



- Signal Word: Danger
- Symbols: GHS05

Hazard phrases

- Causes serious eye damage.



2 Hazards identification (....)

Precautionary Phrases

- Keep out of reach of children.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not get in eyes, on skin, or on clothing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store in a dry place.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- Mildly irritating to skin

3 Composition/information on ingredients

3.1 Substances

| Chemical Name | Concentration | CAS Number | EC Number | R/H Phrases* | Symbols | Index No. |
|-------------------------|---------------|------------|-----------|--------------|-----------|--------------|
| sodium hydrogensulphate | 99.5 | 7681-38-1 | 231-665-7 | H318, R41 | GHS05, Xi | 016-046-00-X |

*See Section 16

4 First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If medical advice is needed, have product container or label at hand.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If skin irritation or rash occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get medical advice/attention.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes

4.3 Indication of immediate medical attention and special treatment needed

- Treat symptomatically

5 Fire-fighting measures

5.1 Extinguishing media

- This product is not flammable
- In case of fire: use water for extinction

5.2 Special hazards arising from the substance or mixture

- See Section 10.6



5 Fire-fighting measures (....)

- Causes serious eye damage.

5.3 Advice for firefighters

- Wear protective clothing as per section 8
- Wear Breathing Apparatus

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid raising dust

6.2 Environmental Precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Remove by mechanical means
- Place in appropriate container

6.4 Reference to other sections

- See Section 7 & 8

7 Handling and storage

7.1 Precautions for safe handling

- Avoid raising dust
- Ensure adequate ventilation
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with acid

7.2 Conditions for safe storage, including any incompatibilities

- Store in a well-ventilated place. Keep container tightly closed.
- Keep cool.
- Store in a dry place.

7.3 Specific end use(s)

- No information available.

8 Exposure controls/personal protection

8.1 Control parameters

sodium hydrogensulphate

- The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 5 mg/m³ (8hr TWA) total respirable dust

8.2 Exposure controls

- No special requirements



8 Exposure controls/personal protection (....)

Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended)
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection



Respirator



Goggles



Gloves



Suit

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Solid, white, powder
- pH 1.2-1.3 at 1 % concentration
- Boiling point - not known
- Vapour pressure - not applicable
- Vapour density - not applicable
- Melting point 180 deg C with decomposition
- Water solubility 1080 g/l
- Specific gravity 1.4-1.5 g/cm³
- Not flammable
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable

9.2 Other information

- Bulk density - not known

10 Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- No information available

10.3 Possibility of hazardous reactions

- Incompatible with acid

10.4 Conditions to avoid

- Avoid contact with water
- Avoid contact with acids and alkalis

10.5 Incompatible materials

- Incompatible with acid
- Avoid contact with aluminium



10 Stability and reactivity (....)

- Avoid contact with zinc

10 .6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides
- Forms hazardous decomposition products

11 Toxicological information

11 .1 Information on toxicological effects

- LD50 (oral, rat) 2490 mg/kg

Inhalation

- May cause coughing
- Causes dry throat

Contact with skin

- May cause redness

Contact with eyes

- Causes redness and irritation

Ingestion

- Causes nausea/vomiting

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available

12 Ecological information

12 .1 Toxicity

- EC50 (Daphnia magna) 190 mg/l (48 hr)

12 .2 Persistence and degradability

- Biodegradable

12 .3 Bioaccumulation Potential

- Bioaccumulation is insignificant

12 .4 Mobility in soil

- Large volumes may penetrate soil and contaminate groundwater

12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII



12 Ecological information (....)

12 .6 Other Adverse Effects

- No information available

13 Disposal considerations

13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- This material and/or its container must be disposed of as hazardous waste

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

14 Transport information

14.1 UN Number

N/A

14.2 UN Proper Shipping Name

N/A

14.3 Transport hazard class(es)

N/A

14.4 Packing group

14 .5 Environmental hazards

- Presents little or no hazard to the environment

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

Other information

Road/Rail (ADR/RID)

| | | |
|-----------------------|---------------|--------------------|
| Proper Shipping Name: | Not hazardous | ADR UN No.: |
| ADR Hazard Class: | | ADR Packing Group: |
| Tunnel Code: | | |

Sea (IMDG)

| | | |
|-----------------------|---------------|-------------------|
| Proper Shipping Name: | Not hazardous | IMDG UN No.: |
| IMDG Hazard Class.: | | IMDG Pack Group.: |

Air (ICAO/IATA)

| | | |
|-----------------------|---------------|----------------------|
| Proper Shipping Name: | Not hazardous | ICAO Un No.: |
| ICAO Hazard Class.: | | ICAO Packing Group.: |



15 Regulatory information

15 .1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK
- Not hazardous according to current ADR Regulations

15 .2 Chemical Safety Assessment

16 Other information

Text of R and S phrase codes used in this safety data sheet:- H318: Causes serious eye damage.; R41: Risk of serious damage to eyes.

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.