

Material Safety Data Sheet
According to 91/155 EEC

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

- **Trade Name:** pH-Minus
 - **Other names** Sodium Hydrogen Sulphate, Sodium Bisulphate, Dry Acid, Spa Down, Adjust Down, pH reducer
 - **Intended use of chemical** To reduce pH / Total Alkalinity in pool / spa water.
 - **Manufacturer/Supplier** E.J.Payne Ltd, 1 Belgrave Road, Longton, Stoke-on-Trent, Staffs ST3 4PR
- Tel: +44 (0) 1782 312534
Fax: +44 (0) 1782 599868

2. Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description** 7681-38-1 sodium hydrogen sulphate
- **EINECS Number:** 231-665-7
- **EU Number:** 016-046-00-X

3. Hazard Identification

- **Hazardous Description**



Xi Irritant

- **Hazard information concerning particular hazards for human and the environment**

R41 Risk of serious damage to eyes.

4. First Aid measures

- **After inhalation:** If inhaled, remove individual to fresh air. If breathing is difficult, have a trained person administer oxygen. Seek medical attention immediately.
- **After skin contact:** If contact with skin occurs, wash off with plenty of water for at least 15 minutes. If skin irritation persists, seek immediate medical attention. Remove contaminated clothing.
- **After eye contact:** Immediately flush contaminated eye(s) with cool, gently flowing water for at least 20 minutes. Seek immediate medical attention
- **After Ingestion:** If swallowed, drink large amounts of water. DO NOT INDUCE VOMITING. Avoid alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Seek medical attention immediately.

5. Fire fighting measures

- **Special extinguishing media:** Dry powder. CO2
- **Special exposure hazards in fire:** Decomposes to produce toxic oxides of sulphur
- **Special protective equipment:** Self contained breathing apparatus (SCBA)

6. Accidental release Measures

- **Personal Protection** Use appropriate personal protective equipment as detailed in section 8
- **Methods for cleaning:** Contain the spillage. Sweep up the spill and place in clean, dry plastic container including any contaminated material. Dispose of in accordance with relevant waste disposal legislation.

7. Handling and storage

- **Personal Protection** Avoid contact with eyes
- **Storage** Keep this product in original, sealed container when not in use. Store in cool dry, well-ventilated area. Keep this product out of reach of children.

8. Exposure control/personal protection• **Exposure control limits and source:**

	8hr TWA		15min STEL		Authority
	ppm	mg/m3	ppm	mg/m3	
Chlorine					
Not listed but general dust levels apply		10			EH40

- **Hand Protection** Wear suitable chemical resistant gloves when handling this product. Disposable nitrile gloves are suitable providing regular changes of gloves are made.
- **Eye Protection** Wear appropriate safety goggles
- **Skin Protection** Wear suitable chemical resistant clothing to protect exposed skin

9. Physical and chemical properties

- **Appearance at 20oC** Solid, white powder
- **Odour** Odourless
- **Melting Point** Above 180 0C with decomposition
- **pH (conc)** 1.2 - 1.3 @ 1.2% w/w solution
- **Relative Density** 1.4/1.5g g/cm3
- **Flash Point**
- **Solubility in water** 1080g/l @ 250C

10. Stability and reactivity

- **Conditions to avoid** This product is stable under normal conditions
- **Materials to avoid** Metals and other swimming pool/spa chemicals in their concentrated forms. Bases and strong oxidising agents.
- **Hazardous decomposition products** Toxic oxides of sulphur and hydrogen (metal contact)

11. Toxicological Information

- **Inhalation** May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
- **Ingestion** May be harmful if swallowed.
- **Skin** This product is highly irritating to skin.
- **Eyes** This product is highly irritating to eyes
- **Toxicity** Oral LD50 2490mg/kg (rat).

12. Ecological Information

- **Aquatic toxicity** EC50 (Daphnia Magna) 190 mg/(48HR)
Properties similar to sulphuric acid.

13. Disposal Considerations

- **Substance** Do not put product, spilled product or filled or partially filled containers into the waste. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated products regulated according to local and national regulations.
- **Container** **DO NOT** re-use container. Rinse thoroughly before discarding. Thoroughly dilute washings.

14. Transport Information

- **Classification** Not regulated

15. Regulatory information

- **Product Name** pH Minus/Dry Acid
- **Symbol** Xi
- **Indications of danger** Irritant
- **Risk phrases** R41 Risk of serious danger to eyes
- **Safety phrases**
 - S1/2 Keep locked up and out of reach of children
 - S24 Avoid contact with eyes, rinse immediately
 - S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.