

## MATERIAL SAFETY DATA SHEET

<b>Product Name:</b> Dry Acid (pH Reducer)					
<b>1. Chemical product and company identification</b>					
Product name	Dry Acid (pH Reducer)				
Chemical name	Sodium Bisulphate				
Product type and use	Swimming pools				
Company identification	Total Pool Chemicals				
Address and telephone number	Unit 1, Pool Bank Park High Street, Tarvin, Chester CH3 8JH				
Emergency telephone number	01829 740290				
<b>2. Composition/Information on ingredients</b>					
<b>Chemical Name</b>	<b>CAS No</b>	<b>Conc(%)</b>	<b>Symbol</b>	<b>R-phrase(s)</b>	<b>EINECS</b>
Sodium Hydrogen Sulphate	7681-38-1			Xi; R41	231-665-7
<b>3. Hazards identification</b>					
Skin Contact	Dust is highly irritating to skin, especially when wet. Risk of serious damage to eyes.				
Eye Contact					
<b>4. First-aid measures</b>					
Inhalation:	Irritation of breathing passages. Coughing	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek immediate medical attention.			
Skin contact:	Severe irritation.	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin are damaged or if irritation persists seek medical attention.			
Contact with eyes:	Pain, reddening, watering.	Irrigate thoroughly with water for at least 10 minutes. Obtain immediate medical attention.			
Ingestion:	Irritation of upper Digestive tract.	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.			
<b>5. Fire-fighting measures</b>					
- Suitable Extinguishers	Use extinguisher suitable to cause of fire				
- Hazardous Combustion Products	Oxides of sulphur				
- Special Equipment for Fire Fighting	Self contained breathing apparatus				

<b>Product Name:</b> Dry Acid (pH Reducer)	
<b>6. Accidental release measure</b>	
Personal precautions:	Wear appropriate protection, protective gloves, goggles, overalls and boots.
Environmental precautions:	Avoid raising dust.
Methods for cleaning up:	Take up dry if possible and hold for re-use or waste disposal. Residues should be dissolved carefully in plenty of water and neutralised with soda ash or bicarbonate before flushing away.
<b>7. Handling and Storage</b>	
Ventilation	Good general ventilation. Do not breathe dust.
Handling	Avoid contact with skin, eyes and mucous membranes. Eye wash facilities are required where this material is used.
Storage	Keep dry. Store in tightly closed original containers.
Keep away from	Aqueous solutions attack many metals with liberation of flammable hydrogen gas.
<b>8. Exposure controls/Personal Protection</b>	
Exposure Limits:	10 mg/m <sup>3</sup> inhalable dust, 4 mg/m <sup>3</sup> respirable dust
Type:	EH40 recommendation
Monitoring Method:	Dust monitoring
<u>Protective Measures</u>	
Respiratory protection:	Type approved RPE for nuisance dust if required.
Hand protection:	Gloves
Eye protection:	Goggles
Skin and body protection:	Overall and boots
Hygiene Measures	Always wash thoroughly after handling chemicals

<b>Product Name:</b> Dry Acid (pH Reducer)	
<b>9. Physical &amp; Chemical Properties</b>	
Appearance	White powder, crystals or prills
pH	1.3 @ 1.2% solution
Melting Point/range	ca. 180°C
Flammability	Not combustible
Bulk density	1.4 – 1.5
Solubility in water	28g/100 ml H <sub>2</sub> O @ 25°C
<b>10. Stability and Reactivity</b>	
Conditions to avoid:	Moisture
Hazardous reactions:	Aqueous solutions attack many metals with liberation of flammable hydrogen gas.
<b>11. Toxicological Information</b>	
Effects:	Dust is very irritating to eyes, respiratory system and the skin, especially when wet. Contact with eyes may result in serious damage. Effects of solutions are similar to sulphuric acid.
<b>12. Ecological Information</b>	
Environmental Effects:	Properties similar to those of Sulphuric Acid.
Aquatic Toxicity:	LC <sub>50</sub> , Daphnia Magna, 48h = 190 mg/l
<b>13. Disposal Considerations</b>	
Substance:	Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
Container:	As substance.
<b>14. Transport Information</b>	
Not regulated for transport	

15. **Regulatory Information**

Supply label details

Ref. CHIP 99 (2)

Label Name:

Sodium Hydrogen Sulphate

Symbols:

Irritant

Risk Phrases:

41 – risk of serious damage to eyes

Safety Phrases:

24 – 26 – avoid contact with the skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

EC No

231-665-7

16. **Other Information**

This material is usually used for pH control.

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.