

SAFETY DATA SHEET



Product Name:	pH MINUS		SDS Reference 021
Version No. 2	Revision No.	Authorisation date	31 st November 2010

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name	PH MINUS		
Synonym (s)	DRY ACID, SODIUM BISULPHATE, pH REDUCER		
Use(s)	Increasing acidity of swimming pool water		
Company Identification	PLASTICA LTD Perimeter House, Napier Road, St Leonards-on-Sea, East Sussex, TN38 9NY		Telephone +44 (0) 1424 857857
Emergency Telephone	09062 655005 (24hr) – (Calls charged at £1 per minute)		
Email Address	info@plasticapools.com		

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008



GHS05
Eye Dam. 1 H318 Causes serious eye damage

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Physical & Chemical:



IRRITANT

Health: RISK OF SERIOUS DAMAGE TO EYES. .

Environmental: ACCORDING TO EXPERIENCE, THE PRODUCT IS CONSIDERED TO BE HARMLESS TO THE ENVIRONMENT IF HANDLED IN THE CORRECT MANNER.

Label elements
Labelling according to Regulation (EC) No 1272/2008
Hazard pictogram

2. HAZARDS IDENTIFICATION**DANGER**

H318 Causes serious eye damage

PREVENTION

P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P262 Do not get in eyes, on skin, or on clothing
P281 Use personal protective equipment as required

RESPONSE

P305+351+338+313 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses, if present and easy to do. Continue rinsing; get medical attention

Classification & labelling

The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP3.1]. EC label: 231-665-7

**IRRITANT**

Risk phrases R41 RISK OF SERIOUS DAMAGE TO EYES.

Safety phrases S2 KEEP OUT OF REACH OF CHILDREN.
S24 AVOID CONTACT WITH SKIN.
S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S46 IF SWALLOWED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation GRANULAR SODIUM HYDROGEN SULPHATE
CAS Number 7681-38-1
EC Number 231-665-7
EC Index Number 016-046-00-X

4. FIRST AID MEASURES**General information**

Inhalation	Remove casualty to fresh air and provide warmth and rest. If necessary, seek medical advice.
Skin contact	Remove contaminated clothing. Rinse skin affected immediately with plenty of water for at least 15 minutes. If necessary, seek medical advice.
Eye contact	Immediately wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.
Ingestion	Allow the patient to vomit on his own accord. Give copious water to drink;

5. FIRE FIGHTING MEASURES

General hazard	THIS MATERIAL IS NOT VERY LIKELY TO BURN
Extinguishing media	Small fires: dry chemical, CO ₂ , water spray or standard foam. Large fires: water spray, fog or standard foam is recommended.
Extinguishing media not to be used	
Special exposure hazards	The thermal decomposition products released (e.g. SO ₂) should be considered toxic if inhaled.
Protective equipment	Wear self-contained breathing apparatus.
Further information	Cool endangered containers with water (to prevent container explosion).

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up) into a suitable container; dispose of as prescribed. Wash affected area to drain with a lot of water.
Environmental considerations	
Further information	

7. HANDLING & STORAGE

Advice on safe handling	Handle in accordance with good hygiene and safety practice. Keep the raising and deposition of dust to a minimum.
Storage conditions	Ensure adequate ventilation of the storage area. Keep containers tightly closed and dry away from foodstuffs.
Further information	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls.
	LTEL (8 hour TWA): ppm 10 mg/m ³ Total inhalable dust (EH40/2005)
	LTEL (8 hour TWA): ppm 4 mg/m ³ Respirable dust (EH40/2005)
Engineering controls	Ensure adequate ventilation of working area

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection	Observe normal standards for handling chemicals. Avoid breathing dust Wash hands before breaks and after work. Wear personal protective equipment appropriate to the task (see below)
Eye protection	Safety goggles or face shield (i.e. EN 166 approved)
Skin protection	Natural rubber latex gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	When dusty conditions are encountered, wear a NIOSH/OSHA full face respirator with chlorine cartridge and dust prefilter.
Other protection	Protective overall.

**9. PHYSICAL & CHEMICAL PROPERTIES**

Physical form	Crystals or powder
Colour	White
Odour	Odourless
pH	Of 12 g/l H ₂ O: 1.3
Molecular formula	NaHSO ₄
Boiling pt / range	°C
Melting pt / range	approx. 180 °C
Flash point	°C
Autoflammability	°C
Bulk density	1.4-1.5 kg/l
Explosive limits	Lower: % (v/v) Higher: % (v/v)
Viscosity	
Water solubility	Very soluble – 280 g/l at 25°C
Additional information	

10. STABILITY & REACTIVITY

Stability	Stable under normal conditions of handling.
Thermal decomposition	
Conditions to avoid	Contact with water – corrosive solution formed.
Material to avoid	The product is incompatible with many metals
Hazardous reactions	Reaction of aqueous solution with metals causes release of flammable hydrogen with the possibility of explosive air mixtures being formed.
Hazardous decomposition products	Oxides of sulphur
Further information	

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ rat (oral)	mg/kg	No data available
Dermal compatibility	No data available		
Mucous membrane compatibility	No data available		
Further information			

12. ECOLOGICAL INFORMATION

Toxicity	LC ₅₀	Daphnia magna	190 mg/l	48 hours
Persistence & Degradability	No data available			
Further information				

13. DISPOSAL CONSIDERATIONS

Water Treatment Methods	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
Other Disposal Recommendations	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

14. TRANSPORT INFORMATION

United Nations number	Not classified for transport.
Packaging group	
IMDG code	
RID / ADR	
ICAO / IATA	
Marine pollutant	
Proper shipping name	
Emergency action code	
Further information	

15. REGULATORY INFORMATION

A Chemical Safety Assessment has not been carried out.
This product is subject to the Control of Major Accident Hazards (Amendment) Regulations 2005.

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16. OTHER INFORMATION

Further information

Sources of data The Approved Supply List, EH40 (2005) and other suppliers' safety data sheets

Date of issue 31/11/10

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.