

SAFETY DATA SHEET



Product Name: **pH MINUS**

SDS Reference **021**

Version No. **1**

Revision No.

Authorisation date **September 13th, 2006**

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, Telephone **+44 (0) 1424 857857**
St Leonards-on-Sea, East Sussex, TN38 9NY
Emergency Telephone **09062 655005 (24hr)**

2. COMPOSITION / INFORMATION ON INGREDIENTS

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

3. HAZARDS IDENTIFICATION

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.

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;

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4. FIRST AID MEASURES

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
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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Other protection Protective overall.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical form Crystals or powder
Colour White
Odour Odourless
pH Of 12 g/l H₂O: 1.3
Molecular formula NaHSO₄
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 LD₅₀ rat (oral) mg/kg No data available
Dermal compatibility No data available
Mucous membrane compatibility No data available

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11. TOXICOLOGICAL INFORMATION

Further information

12. ECOLOGICAL INFORMATION

Acute toxicity LC₅₀ Daphnia magna 190 mg/l 48 hours

Degradability No data available

Further information

13. DISPOSAL CONSIDERATIONS

Advice on disposal In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.

Contaminated packaging 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

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.

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15. REGULATORY INFORMATION

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.

16. OTHER INFORMATION

Further information

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

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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.

Data sheet prepared by Rising HS&E Services.