

# SAFETY DATA SHEET



Product Name:

**pH PLUS**

SDS Reference **022**

Version No. **1**

Revision No.

Authorisation date **September 13<sup>th</sup>, 2006**

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name** pH PLUS  
**Synonym (s)** SODA ASH, PH INCREASER  
**Use(s)** Decreasing the acidity of swimming pools  
**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 CARBONATE  
**CAS number** 497-19-8  
**EINECS number** 207-838-8  
**EC Index number** 011-005-00-2

## 3. HAZARDS IDENTIFICATION

**Physical & Chemical:**



**IRRITANT**

**Health:** IRRITATING 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** Clean areas of skin affected immediately with plenty of water. If necessary, seek medical advice.  
**Eye contact** Immediately wash out eye thoroughly with plenty of water until irritation subsides for at least 15 minutes. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.  
**Ingestion** Rinse mouth. Allow the patient to vomit on his own accord. Give plenty of water to drink.

**4. FIRST AID MEASURES**

Further information

**5. FIRE FIGHTING MEASURES**

|   |  |
|---|--|
| <b>General hazard</b>                     | THE PRODUCT WILL NOT BURN  |
| <b>Extinguishing media</b>                | To suit local surroundings (e.g. water spray, foam, dry chemical powder)           |
| <b>Extinguishing media not to be used</b> |  |
| <b>Special exposure hazards</b>           | The thermal decomposition products released should be considered toxic if inhaled. |
| <b>Protective equipment</b>               | Wear self-contained breathing apparatus.   |
| <b>Further information</b>                |  |

**6. ACCIDENTAL RELEASE MEASURES**

|                                     |   |
|-------------------------------------|---|
| <b>Methods for cleaning up</b>      | Adhere to personal protective measures. Take up mechanically (e.g. sweep or vacuum up) into a suitable container; dispose of as prescribed. Rinse affected area with water. |
| <b>Environmental considerations</b> | Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.   |
| <b>Further information</b>          |   |

**7. HANDLING & STORAGE**

|                                |   |
|--------------------------------|---|
| <b>Advice on safe handling</b> | Handle in accordance with good hygiene and safety practice.<br>Keep the raising and deposition of dust to a minimum.          |
| <b>Storage conditions</b>      | Ensure adequate ventilation of the storage area. Keep containers tightly closed, cool and dry away from acids and foodstuffs. |
| <b>Further information</b>     |   |

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

|                             |  |
|-----------------------------|--|
| <b>Exposure controls</b>    | Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls.   |
|                             | LTEL (8 hour TWA):                      ppm            10   mg/m <sup>3</sup> (total inhalable dust, EH40/2005)  |
|                             | LTEL (8 hour TWA):                      ppm            4   mg/m <sup>3</sup> (respirable dust, EH40/2005)  |
| <b>Engineering controls</b> | Ensure adequate ventilation of working area  |
| <b>Personal protection</b>  | Observe normal standards for handling chemicals.<br>Avoid breathing dust<br>Wash hands before breaks and after work.<br>Wear personal protective equipment appropriate to the task (see below) |
| <b>Eye protection</b>       | Safety goggles or face shield (i.e. EN 166 approved)   |
| <b>Skin protection</b>      | PVC gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)   |

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory protection** When dusty conditions are encountered, wear a NIOSH/OSHA full face respirator or dust mask  
**Other protection** Protective overall.

## 9. PHYSICAL & CHEMICAL PROPERTIES

**Physical form** Granules of crystalline powder  
**Colour** White  
**Odour** Odourless  
**pH** 11.4 (1% solution of water)  
**Molecular formula**  $\text{Na}_2\text{CO}_3$   
**Boiling pt / range** decomposes °C  
**Melting pt / range** 851 °C  
**Flash point** °C  
**Autoflammability** °C  
**Density** 0.86 to 1.12  
**Explosive limits** Lower: % (v/v) Higher: % (v/v)  
**Viscosity**  
**Water solubility** Very soluble  
**Additional information** The product is soluble in glycerol and insoluble in ethanol and acetone.

## 10. STABILITY & REACTIVITY

**Stability** Stable under normal conditions of handling. Reacts with acids to release large volumes of carbon dioxide and heat.  
**Thermal decomposition**  
**Conditions to avoid**  
**Material to avoid** This product is incompatible with acids.  
**Hazardous reactions** Reacts with acids to release carbon dioxide and heat  
**Hazardous decomposition products**  
**Further information**

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**  $\text{LD}_{50}$  rat (oral) 4090 mg/kg  
**Dermal compatibility** Non-irritant to intact skin

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## 11. TOXICOLOGICAL INFORMATION

**Mucous membrane compatibility** No data available

**Further information**

## 12. ECOLOGICAL INFORMATION

**Acute toxicity** LC<sub>50</sub> Bluegill Sunfish 300-320 mg/l

**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** The product is 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 [CHIP 3.1]. EC label: 207-838-8



**IRRITANT**

**Risk phrases**

R 36

IRRITATING TO EYES

**15. REGULATORY INFORMATION****Safety phrases**

|     |   |
|-----|---|
| S2  | KEEP OUT OF REACH OF CHILDREN.  |
| S22 | DO NOT BREATHE DUST   |
| 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 and other suppliers' safety data sheets

**Date of issue** 04-05-2006

**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.**