

Safety Data Sheet dated 17/5/2012, version 1



## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

Mixture identification:

Trade name: **EXPO pH SUPER**

### 1.2. Relevant identified uses of the substance/mixture and uses advised against

pH acid powder corrector for swimming pool. With buffering effect, without chloride.

### 1.3. Details of the supplier of the safety data sheet

Company:  
BARCHEMICALS SRL  
VIA S.ALLENDE 14  
CASTELNUOVO RANGONE (MO)  
ITALY  
PHONE. +39 059/536502  
FAX. +39 059/536742

Competent person responsible for the safety data sheet:  
barani.corrado@barchemicals.it


### 1.4. Emergency telephone number

Barani Dr.Corrado - MOBILE PHONE. +39 335/6109383

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Danger, Eye Dam. 1, Causes serious eye damage.

**Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:**

Properties / Symbols:

Xi Irritant

R Phrases:

R41 Risk of serious damage to eyes.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

EC regulation criteria 1272/2008 (CLP)

Symbols:



Danger

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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## *Solution for Water Treatment*

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

### Special Provisions:

None

### Contents

sodium hydrogensulphate

### Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

#### Symbols:

Xi Irritant

#### R Phrases:

R41 Risk of serious damage to eyes.

#### S 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.

S39 Wear eye/face protection.

### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

#### Other Hazards:

No other hazards

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

90% - 100% Sodium hydrogensulphate

REACH No.: 01-2119552465-36-0000, Index number: 016-046-00-X, CAS: 7681-38-1, EC: 231-665-7

Xi; R41

 3.3/1 Eye Dam. 1 H318

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Remove contaminated clothing immediately and dispose off safely.

#### In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

#### In case of Ingestion:

Rinse mouth thoroughly and drink plenty of water.

#### In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

### 4.2. Most important symptoms and effects, both acute and delayed

Lung irritation

### 4.3. Indication of any immediate medical attention and special treatment needed

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### *Solution for Water Treatment*

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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## **5. FIRE-FIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Foam.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### **5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

### **5.3. Advice for fire-fighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, sand

### **6.3. Methods and material for containment and cleaning up**

Wash with plenty of water.

### **6.4. Reference to other sections**

See also section 8 and 13

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## **7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage at room temperature and protected from direct light.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### **7.3. Specific end use(s)**

None in particular

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

None.

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

CR (polychloroprene, chloroprene rubber).

One-time gloves.

Respiratory protection:

Filtering Half-face mask (DIN EN 149).

Thermal Hazards:

None

Environmental exposure controls:

None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|   |                         |
|---|-------------------------|
| Appearance and colour:                        | Yellow powder           |
| Odour:  | Inodor                  |
| Odour threshold:                              | N.A.                    |
| pH:   | 1 (50 g/l in water)     |
| Melting point / freezing point:               | 180 °C                  |
| Initial boiling point and boiling range:      | over 200 °C             |
| Solid/gas flammability:                       | N.A.                    |
| Upper/lower flammability or explosive limits: | N.A.                    |
| Vapour density:                               | N.A.                    |
| Flash point:                                  | N.A.                    |
| Evaporation rate:                             | N.A.                    |
| Vapour pressure:                              | < 0.100 hPa (20 °C)     |
| Relative density:                             | 2.742 g/cm <sup>3</sup> |
| Solubility in water:                          | 1080 g/l                |
| Lipid solubility:                             | N.A.                    |
| Partition coefficient (n-octanol/water):      | N.A.                    |
| Auto-ignition temperature:                    | N.A.                    |
| Decomposition temperature:                    | N.A.                    |
| Viscosity:                                    | N.A.                    |
| Explosive properties:                         | N.A.                    |
| Oxidizing properties:                         | N.A.                    |

### 9.2. Other information

|                                      |      |
|--------------------------------------|------|
| Miscibility:                         | N.A. |
| Fat Solubility:                      | N.A. |
| Conductivity:                        | N.A. |
| Substance Groups relevant properties | N.A. |

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

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#### **10.3. Possibility of hazardous reactions**

It may generate flammable gases on contact with dithiocarbamates, mercaptans and other organic sulphides, elementary metals (alkalis, alkaline earth, powder alloys, vapours), and powerful reducing agents.

It may generate toxic gases on contact with inorganic fluorides, halogenated organic substances, sulphides, nitrides, nitriles, organophosphates, and powerful oxidising agents.

It may catch fire on contact with dithiocarbamates, elementary metals (alkali, alkaline earth, powder alloys, vapours, sheets or bars), and nitrides.

#### **10.4. Conditions to avoid**

Stable under normal conditions.

#### **10.5. Incompatible materials**

None in particular.

#### **10.6. Hazardous decomposition products**

None.

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## **11. TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

Sodium hydrogensulphate - CAS: 7681-38-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2490 mg/kg - Source: RTECS

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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## **12. ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Sodium hydrogensulphate - CAS: 7681-38-1

Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 16-28 OECD SIDS - SULFURIC ACID, pH 3.25 to 3.5

Test: LC50 - Species: Fish - Duration h: 24 - mg/l: 82 OECD SIDS - SULFURIC ACID, ISO 7346/1

Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 13500 OECD SIDS - SODIUM SULFATE, Concentration range in reconstituted water

Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 7960 OECD SIDS - SODIUM SULFATE

### **12.2. Persistence and degradability**

N.A.

### **12.3. Bioaccumulative potential**

N.A.

### **12.4. Mobility in soil**

N.A.

### **12.5. Results of PBT and vPvB assessment**

vPvB Substances: None - PBT Substances: None

### **12.6. Other adverse effects**

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None

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

### 14. TRANSPORT INFORMATION

#### 14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

#### 14.2. UN proper shipping name

N.A.

#### 14.3. Transport hazard class(es)

N.A.

#### 14.4. Packing Group

N.A.

#### 14.5. Environmental hazards

IMDG-Marine pollutant: No

#### 14.6. Special Precautions for User

N.A.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N.A.

### 15. REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

#### 15.2. Chemical Safety Assessment

No

### 16. OTHER INFORMATION

Product for professional use.

Full text of phrases referred to in Section 3:

R41 Risk of serious damage to eyes.

H318 Causes serious eye damage.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

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## *Solution for Water Treatment*

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

|             |  |
|-------------|--|
| ADR:        | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| CAS:        | Chemical Abstracts Service (division of the American Chemical Society).              |
| CLP:        | Classification, Labeling, Packaging.   |
| DNEL:       | Derived No Effect Level.   |
| EINECS:     | European Inventory of Existing Commercial Chemical Substances.                       |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany.  |
| GHS:        | Globally Harmonized System of Classification and Labeling of Chemicals.              |
| IATA:       | International Air Transport Association.   |
| IATA-DGR:   | Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  |
| ICAO:       | International Civil Aviation Organization.   |
| ICAO-TI:    | Technical Instructions by the "International Civil Aviation Organization" (ICAO).    |
| IMDG:       | International Maritime Code for Dangerous Goods.                                     |
| INCI:       | International Nomenclature of Cosmetic Ingredients.                                  |
| KSt:        | Explosion coefficient.   |
| LC50:       | Lethal concentration, for 50 percent of test population.                             |
| LD50:       | Lethal dose, for 50 percent of test population.                                      |
| LTE:        | Long-term exposure.  |
| PNEC:       | Predicted No Effect Concentration.   |
| RID:        | Regulation Concerning the International Transport of Dangerous Goods by Rail.        |
| STE:        | Short-term exposure.   |
| STEL:       | Short Term Exposure limit.   |
| STOT:       | Specific Target Organ Toxicity.  |
| TLV:        | Threshold Limiting Value.  |
| TWATLV:     | Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).    |
| WGK:        | German Water Hazard Class.   |

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