



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

1.1. Product Identifier

Mixture identification:

Trade name: **EXPO pH NEW BLU**

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

Pool buffer inorganic acids-based pH corrector with antialgae and blueing effect - liquid

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, Skin Corr. 1A, Causes severe skin burns and eye damage.

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

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

Properties / Symbols:

C Corrosive

R Phrases:

R35 Causes severe burns.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

EC regulation criteria 1272/2008 (CLP)

Symbols:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

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Solution for Water Treatment

H318 Causes serious eye damage.

Precautionary statements:

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contents

sulphuric acid ... %

sodium hydrogensulphate

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

Symbols:

C Corrosive

R Phrases:

R35 Causes severe burns.

S Phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contents

sulphuric acid ... %

sodium hydrogensulphate

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:

40% - 50% sulphuric acid

Index number: 016-020-00-8, CAS: 7664-93-9, EC: 231-639-5

C; R35

 3.2/1A Skin Corr. 1A H314

5% - 10% 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

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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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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.

Do NOT induce vomiting.

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

None

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

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

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

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.

Burning produces heavy smoke.

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.

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

Do not add water to this product

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6.4. Reference to other sections

See also section 8 and 13

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

Keep away from food, drink and feed.

Incompatible materials:

Concentrate Alkali

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

sulphuric acid ... % - CAS: 7664-93-9

TLV TWA: 0,05 ppm, A2 - 0,2 mg/m³, A2

TLV STEL: A2

DNEL Exposure Limit Values

sulphuric acid ... % - CAS: 7664-93-9

Worker Professional: 0.05 03 - Exposure: Human Inhalation Long Term, local effects

Worker Professional: 0.1 03 - Exposure: Human Inhalation Short Term, local effects

PNEC Exposure Limit Values

sulphuric acid ... % - CAS: 7664-93-9

Worker Industry: 8.8 mg/l - Exposure: Environment: Water

Worker Professional: 0.0025 mg/l - Exposure: Environment: Water Dolce

Worker Professional: 0.00025 mg/l - Exposure: Environment: Water Marina

Worker Professional: 0.002 mg/l - Exposure: Environment: Soil

8.2. Exposure controls

Eye protection:

Basket eye glasses.

Protection for skin:

Chemical protection clothing.

Protection for hands:

CR (polychloroprene, chloroprene rubber).

Respiratory protection:

Full face mask with filter for acids

Thermal Hazards:

None

Environmental exposure controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and colour: Blue liquid

Odour: Odorless

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Solution for Water Treatment

Odour threshold: N.A.
pH: <1
Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.
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: N.A.
Relative density: 1,40 Kg/l
Solubility in water: Complete
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

10.3. Possibility of hazardous reactions

Do not mix with water.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Concentrate Alkali

10.6. Hazardous decomposition products

None.

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:

sulphuric acid ... % - CAS: 7664-93-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2140 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat = 375 mg/m3

Test: LC50 - Route: Inhalation Mist - Species: Mouse = 0.85 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation Mist - Species: Mouse = 0.6 mg/l - Duration: 8h

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.:

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- 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.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

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

sulphuric acid ... % - CAS: 7664-93-9

Test: EC50 - Species: Algae - Duration h: 72 - mg/l: 100

Test: LC50 - Species: Fish - Duration h: 96 - mg/l: 16

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

Bioaccumulative: No

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

None

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION



14.1. UN number

ADR-UN Number: 3264

IATA-UN Number: 3264

IMDG-UN Number: 3264

14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid ... %)

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IATA-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid ... %)
 IMDG-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid ... %)

14.3. Transport hazard class(es)

ADR-Class: 8
 ADR - Hazard identification number: 88
 IATA-Class: 8
 IATA-Label: Corrosive
 IMDG-Class: 8

14.4. Packing Group

ADR-Packing Group: II
 IATA-Packing group: II
 IMDG-Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: No
 IMDG-Marine pollutant: No

14.6. Special Precautions for User

ADR-Tunnel Restriction Code: (E)
 IATA-Passenger Aircraft: 850
 IATA-Cargo Aircraft: 854
 IATA-S.P.: A3
 IATA-ERG: 8L
 IMDG-EmS: F-A , S-B
 IMDG-Storage category: B
 IMDG-Storage notes: Clear of living quarters.

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 :

Regulation (EC) nr 648/2004 (Detergents).
 Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
 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:

R35 Causes severe burns.
 R41 Risk of serious damage to eyes.

H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.

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

Main bibliographic sources:

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Solution for Water Treatment

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

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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