

UNIMARINE SERVICES INC

SAFETY DATA SHEET

1. Identification of the substance or preparation and of the company / undertaking

1.1 Product identifier

Product Name: **PH MINUS**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

1.3 Details of the supplier of the safety data sheet

Company:

Unimarine Services Inc.
60 Market Square,
PO Box 364, Belize City

Contact your nearest Unimarine sales office

Email: info@unimarine-services.com

1.4 Emergency Telephone Number

Emergency Telephone: Only to be used in case of incident
Tel: 00357 96484325

2. Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

2.2 Label elements



Irritant

Risk Phrases

- Risk of serious damage to eyes (R41)

Safety Phrases

- Avoid contact with skin (S24)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)

2.3 Other hazards

- Odour: Odourless
- Appearance: powder, white
- Contact with skin: Possible redness and irritation of affected areas
- Inhalation: In cases of severe exposure, shortness of breath may develop
- Ingestion: Not regarded as a potential route of exposure., May cause gastro-intestinal disturbances

3. Composition / information on ingredients

3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Sodium hydrogen sulphate	100	7681-38-1	231-665-7	41	Xi

*See Section 16

4. First aid measures

4.1 Description of first aid measures

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Get medical advice/attention.
-
- IF ON SKIN: Wash with plenty of soap and water.
- Remove/Take off immediately all contaminated clothing.
- Seek medical attention if irritation persists
-
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- When in doubt or symptoms persist, seek medical attention
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Give plenty of water to drink
- Never make an unconscious person vomit or drink fluids
- Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- The ingestion of significant quantities may cause gastro-intestinal disturbances
- In cases of severe exposure, shortness of breath may develop

4.3 Indication of immediate medical attention and special treatment needed

5. Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus
-

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- No special precautions are required for this product
- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- Do not flush spilt material into any public water system

6.3 Methods and material for containment and cleaning up

- Sweep or shovel-up spillage and remove to a safe place
- Place in sealable container
- Seal containers and label them

6. Accidental release measures

6.4 Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling

- The usual precautions for handling chemicals should be observed
- Eyewash bottles should be available
- See Section 8
- Do not mix with any other products

7.2 Conditions for safe storage, including any incompatibilities

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Protect from moist air

7.3 Specific end use(s)

8. Exposure controls / personal protection

8.1 Control parameters

- Sodium hydrogen sulphate
TLV (TWA) 10 mg/m³ ()

8.2 Exposure controls

- No special precautions are required for this product

Occupational exposure controls

- Wear plastic gloves
- Wear goggles giving complete eye protection
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask



Goggles



Gloves

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: powder, white, soluble in water
- pH 1.8 at 1.2 % concentration
- decomposes
- Vapour pressure - not known
- Melting point 205 °C at 760 mm /Hg
- Water solubility ~180 g/l
- Density 1400 kg/m³
- Non-combustible solid

9.2 Other information

- None
-

10. Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- Considered stable under normal conditions

10. Stability and reactivity

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid overheating
- Avoid contact with moisture

10.5 Incompatible materials

- Incompatible with alkali metals
- Incompatible with alkalis (strong bases)
- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include sulphur oxides
 - Decomposition products may include hydrogen
-

11. Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) 2800 mg/kg

Inhalation

- Not regarded as a potential route of exposure.
- In cases of severe exposure, shortness of breath may develop

Contact with skin

- In cases of severe exposure, redness and irritation may develop

Contact with eyes

- Causes severe irritation
- Can cause damage to the eyes

Ingestion

- The ingestion of significant quantities may cause gastro-intestinal disturbances

Carcinogenicity

- No evidence of carcinogenic effects
-

12. Ecological information

12.1 Toxicity

- Presents little or no hazard to the aquatic environment

12.2 Persistence and degradability

- Degrades by hydrolysis

12.3 Bioaccumulation Potential

- Bioaccumulation is insignificant

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

12.6 Other Adverse Effects

- Presents little or no hazard to the environment
-

13. Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point

Classification

- EU Waste class: -
-

14. Transport information

14.1 UN Number

- n/a

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

- Presents little or no hazard to the environment

14.6 Special precautions for user

- Not classified as hazardous for transport

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

- Not applicable

Other information

15. Regulatory information

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

15.2 Chemical Safety Assessment

None

16. Other information

The information contained herein relates only to the specific material identified. Unimarine Services Inc. Believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Unimarine Services Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.