

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture 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

Intended use **Specific product for reducing the pH of pool water.**

Identified Uses	Industrial	Professional	Consumer
Products such as pH regulators, flocculants, precipitators, neutralizing agents	-	-	ERC: 9b. PC: 20.

Uses Advised Against

None known

1.3. Details of the supplier of the safety data sheet

Name **NEW PLAST SRL**
Full address **VIA BRESCIA, 10/B**
District and Country **26010 POZZAGLIO (CR)**
IT
tel. **+39 0375 55066**

CCIAA 133770

e-mail address of the competent person responsible for the Safety Data Sheet

info@poolmaster.it

Product distribution by:

NEW PLAST SRL

1.4. Emergency telephone number

For urgent inquiries refer to

Telefono d'emergenza 0375 55066

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (H24)

Centro Antiveleni di Pavia 0382 24444(CAV IRCCS Fondazione Maugeri-Pavia)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti -Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I -Roma)

Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli -Napoli)

SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin corrosion, category 1B

H314

Causes severe skin burns and eye damage.

Serious eye damage, category 1

H318

Causes serious eye damage.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P102 Keep out of reach of children.**P280** Wear protective gloves/ protective clothing / eye protection / face protection.**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P314** Get medical advice / attention if you feel unwell.**P302+P352** IN CASE OF CONTACT WITH SKIN: wash with plenty of water.

Contains:

HYDROCHLORIC ACID
SODIUM HYDROGENSULPHATE**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
SODIUM HYDROGENSULPHATE		
CAS 7681-38-1	$10 \leq x < 20$	Eye Dam. 1 H318
EC 231-665-7		
INDEX 016-046-00-X		
Reg. no. 01-2119552465-36		
HYDROCHLORIC ACID		
CAS 7647-01-0	$5 \leq x < 10$	Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Classification note/notes according to Annex VI to the CLP Regulation: B
EC 231-595-7		
INDEX 017-002-01-X		
Reg. no. 01-2119484862-27-xxxx		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: eliminate any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, opening the eyelids well. Consult a doctor immediately.

SKIN: wash immediately with water and rinse. Change clothes if necessary. If irritation persists or tissue damage occurs, consult a doctor. In case of skin irritation consult a doctor.

INGESTION: DO NOT induce vomiting. Consult a doctor immediately. Never give anything by mouth to an unconscious person or with cramps.

INHALATION: Call a doctor immediately. Bring the subject to fresh air, away from the accident site. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

Causes serious eye damage.

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

Information not available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA: The extinguishing media are the traditional ones: carbon dioxide, foam and chemical powder. For leaks and spills of the product that have not ignited, the nebulized water can be used to disperse the flammable vapors and to protect the people involved in stopping the loss. NON-SUITABLE EXTINGUISHING MEDIA: Do not use water jets. Water is not effective for extinguishing the fire but it can be used to cool closed containers exposed to the flame, preventing bursts and explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE: Avoid breathing combustion products: carbon oxides.

5.3. Advice for firefighters

GENERAL INFORMATION: Cool the containers with water jets to avoid decomposition of the product and the development of substances potentially hazardous for health. Wear, if necessary, complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of the contaminated water used for the fire extinguisher and the residue according to the regulations in force. EQUIPMENT: Not necessary for small fires. If necessary, wear fire-fighting clothing such as a fireproof suit (EN469), fireproof gloves (EN659) and boots for firefighters (HO A29 or A30) depending on the amount of product and any other materials involved in the fire.

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Stop the leak if there is no danger. Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers involved in the work and for emergency interventions.

6.2. Environmental precautions

Prevent the product from entering sewers, surface waters, water tables.

6.3. Methods and material for containment and cleaning up

Vacuum the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material. Ensure adequate ventilation of the area affected by the loss. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

SODIUM HYDROGENSULPHATE

Conservare in luogo fresco e ben aerato a temperatura inferiore a 30°C.

7.3. Specific end use(s)

See the exposure scenarios attached to this safety datasheet.

SECTION 8. Exposure controls/personal protection

PH MINUS

8.1. Control parameters

Regulatory References:

EU OEL EU Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

SODIUM HYDROGENSULPHATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	11,09	mg/l
Normal value in marine water	1,109	mg/l
Normal value for fresh water sediment	40,2	mg/kg/d
Normal value for marine water sediment	4,02	mg/kg/d
Normal value for water, intermittent release	17,66	mg/l
Normal value of STP microorganisms	800	mg/l
Normal value for the terrestrial compartment	1,54	mg/kg/d

HYDROCHLORIC ACID

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	8	5	15	10	
Predicted no-effect concentration - PNEC						
Normal value in fresh water				36		mg/l
Normal value in marine water				0,036		mg/l
Normal value for water, intermittent release				0,045		mg/l
Normal value of STP microorganisms				36		mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					15 mg/m3		8 mg/m3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

Wear safety footwear for professional use of category III (ref. Directive 89/686 / EEC and standard EN ISO 20344) and anti-acid clothing for complete protection of the skin. Immediately replace contaminated clothing and wash them thoroughly before re-using them. Wash with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless
Odour	pungent
Odour threshold	Not available
pH	1
Melting point / freezing point	Not available
Initial boiling point	> 100 °C
Boiling range	Not available
Flash point	Not applicable
Evaporation Rate	Not available
Flammability of solids and gases	not applicable
Lower inflammability limit	Not applicable
Upper inflammability limit	Not applicable
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Vapour pressure	17,5 mmHg
Vapour density	Not available
Relative density	1,12 g/cm ³
Solubility	insoluble

Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	< 200 cps
Explosive properties	not explosive
Oxidising properties	non ossidante

9.2. Other information

Molecular weight	1.946,566
Frost point	< 0°C

SECTION 10. Stability and reactivity

In the absence of data relating to the preparation, the following information refers to the substances that make up the mixture.

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Avoid heating sources.

10.4. Conditions to avoid

Protect from the sun and heat sources. Protect from moisture.

10.5. Incompatible materials

Information not available.

SODIUM HYDROGENSULPHATE

The aqueous solution is incompatible with: metals.

10.6. Hazardous decomposition products

In case of excessive heating the product may decompose liberating potentially toxic gases.

SODIUM HYDROGENSULPHATE

May develop: sulphurous anhydride, sulphuric anhydride.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

SODIUM HYDROGENSULPHATE

LD50 (Oral) 5989 mg/kg ratto

HYDROCHLORIC ACID

LC50 (Inhalation) 1,68 mg/l/1h ratto (HCl anidro)

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organ
HYDROCHLORIC ACID

sistema respiratorio.

Route of exposure
HYDROCHLORIC ACID

inalazione.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

12.1. Toxicity

HYDROCHLORIC ACID

It is established that the aquatic toxicity of HCl occurs when the quantity is such as to produce very low pH (eg pH 3-5). Given the proposed uses, as only insubstantial perturbations of pH levels are expected, there are no long-term risks to aquatic organisms. In the aquatic environment the effects of HCl are evidently linked to the pH effect since HCl completely dissociates in the H⁺ and Cl⁻ ions (not dangerous): therefore HCl will not reach the sediments and the terrestrial environment. EC50 (4h): 4.92 pH (Daphnia magna), EC50 / 72h: 4.82 pH (Algae), LC50 / 96h: 3.25-3.5 oH (freshwater fish)

SODIUM HYDROGENSULPHATE

LC50 - for Fish	7960 mg/l/96h
EC50 - for Crustacea	1766 mg/l/48h
EC50 - for Algae / Aquatic Plants	10228 mg/l 32 giorni

HYDROCHLORIC ACID

LC50 - for Fish	282 mg/l/96h
EC50 - for Crustacea	< 56 mg/l/72h

12.2. Persistence and degradability**HYDROCHLORIC ACID**

HCl is an inorganic substance that is not biologically degradable.

SODIUM HYDROGENSULPHATE

Entirely degradable

HYDROCHLORIC ACID

Entirely degradable

12.3. Bioaccumulative potential**HYDROCHLORIC ACID**

bioaccumulation phenomena are not expected.

12.4. Mobility in soil**HYDROCHLORIC ACID**

If released into the soil, absorption is minimal. Depending on the buffer capacity of the soil, the H⁺ ion is neutralized in the pores of the inorganic or organic material or the pH can be lowered. EC50 (3h): 5-5.5 pH. The substance has an inhibitory effect on the breathing speed of the activated sludge.

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. UN number**

ADR / RID, IMDG, 1789

IATA:

14.2. UN proper shipping name

NEW PLAST SRL

Revision nr. 8

Dated 24/03/2021

PH MINUS

Page n. 11/14

ADR / RID: HYDROCHLORIC ACID MIXTURE

IMDG: HYDROCHLORIC ACID MIXTURE

IATA: HYDROCHLORIC ACID MIXTURE

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80

IMDG: Special provision: -
EMS: F-A, S-B

IATA: Cargo:

Pass.:

Special provision:

Limited
Quantities: 5
LLimited
Quantities: 5
LMaximum
quantity: 60 LMaximum
quantity: 5 L

A3, A803

Tunnel
restriction
code: (E)Packaging
instructions:
856
Packaging
instructions:
852

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

CODICE ISS (Azienda / preparato): 00466200359 / U65

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Contained substance

Point 75 SODIUM
HYDROGENSULPH
ATE Reg. no.: 01-
2119552465-36

Point 75 HYDROCHLORIC
ACID Reg. no.: 01-
2119484862-27-xxxx

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

SODIUM HYDROGENSULPHATE

HYDROCHLORIC ACID

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Use descriptor system:

ERC	9b	Widespread use of functional fluid (outdoor)
PC	20	Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament

3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 15 / 16.

Exposure Scenarios

Product	PH MINUS
Scenario Title	IDROGENOSOLFATO DI SODIO
Revision nr.	1
File	EN_0103_1.pdf

Product	PH MINUS
Scenario Title	ACIDO CLORIDRICO
Revision nr.	2
File	EN_1057_2.pdf