

Safety Data Sheet PH MASTER EXP LT.6 (7,26 KG)



Safety Data Sheet dated 8/2/2023, version 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: PH MASTER EXP LT.6 (7,26 KG)

Trade code: 190328

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

Recommended use:

Professional use.

Fertilizer for agricultural use

pH-regulating agent.

Uses advised against:

The pertinent uses are listed above, other uses are not recommended

1.3. Details of the supplier of the safety data sheet

Company:

ALBA MILAGRO International spa

Via F. Corridoni 19 20015 Parabiago (MI) Italy

Ph. +39 0331495211

Competent person responsible for the safety data sheet:

reach@albamilagro.com

1.4. Emergency telephone number

Emergency telephone number of the company and/or of an authorised advisory centre (Monday to Friday from 8.30-12.30 and 13.30 to 17.30):

Ph. +39 0331495211

SECTION 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.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

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

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

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

phosphoric acid 75%, orthophosphoric acid 75%
 ALCOHOLS, C12-15, BRANCHED AND LINEAR, ETHOXYLATES

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 30\%$ - $< 40\%$	phosphoric acid 75%, orthophosphoric acid 75%	Index number: CAS: EC: REACH No.: 015-011-00-6 7664-38-2 231-633-2 01- 2119485924 -24	⚠ 3.2/1B Skin Corr. 1B H314
$\geq 1\%$ - $< 2,5\%$	ALCOHOLS, C12-15, BRANCHED AND LINEAR, ETHOXYLATES	CAS: 106232-83-1	⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.3/1 Eye Dam. 1 H318 4.1/C3 Aquatic Chronic 3 H412
$\geq 0,1\%$ - $< 0,25\%$	ethanol; ethyl alcohol	Index number: CAS: EC: 603-002-00-5 64-17-5 200-578-6	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319
20 ppm	butanone; ethyl methyl ketone	Index number: CAS: EC: 606-002-00-3 78-93-3 201-159-0	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H336 EUH066

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

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:

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

SECTION 5: Firefighting 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 firefighters

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.

SECTION 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, organic, 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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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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.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

phosphoric acid 75%, orthophosphoric acid 75% - CAS: 7664-38-2

EU - TWA(8h): 1 mg/m³ - STEL: 2 mg/m³

ACGIH - TWA(8h): 1 mg/m³ - STEL: 3 mg/m³ - Notes: URT, eye and skin irr

ethanol; ethyl alcohol - CAS: 64-17-5

ACGIH - STEL: 1000 ppm - Notes: A3 - URT irr

butanone; ethyl methyl ketone - CAS: 78-93-3

EU - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

DNEL Exposure Limit Values

phosphoric acid 75%, orthophosphoric acid 75% - CAS: 7664-38-2

Worker Industry: 2.92 mg/m³ - Consumer: 0.73 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, local effects

Worker Industry: 2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

ethanol; ethyl alcohol - CAS: 64-17-5

Worker Industry: 1900 mg/m³ - Consumer: 950 mg/m³ - Exposure: Human Inhalation -

Frequency: Short Term, local effects

Worker Industry: 343 mg/kg - Consumer: 206 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 950 mg/m³ - Consumer: 114 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

butanone; ethyl methyl ketone - CAS: 78-93-3

Worker Industry: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Industry: 600 mg/m³ - Consumer: 106 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

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

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Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Red	--	--
Odour:	Pungent	--	--
Odour threshold:	Not Relevant	--	--
Melting point/freezing point:	n.d.	--	--
Boiling point or initial boiling point and boiling range:	n.d.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	n.d.	--	--
Flash point:	n.d. ° C	--	--
Auto-ignition temperature:	n.a.	--	--
Decomposition temperature:	n.d.	--	--
pH:		--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	100%	--	--
Solubility in oil:	n.d.	--	--
Partition coefficient n-octanol/water (log value):	n.d.	--	--

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Vapour pressure:	n.d.	--	--
Density and/or relative density:	1200-1220 g/L	--	--
Relative vapour density:	n.d.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	n.a.	--	--
Evaporation rate:	n.d.	--	--
Miscibility:	n.d.	--	--
Conductivity:	n.d.	--	--
Viscosity:	n.d.	--	--
Oxidizing properties:	n.d.	--	--
Fat Solubility:	n.d.	--	--
Substance Groups relevant properties	n.d.	--	--

SECTION 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
None
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
None in particular.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
N.A.
- Toxicological information of the main substances found in the product:

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phosphoric acid 75%, orthophosphoric acid 75% - CAS: 7664-38-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1530 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 2740 mg/kg

Test: LC50 - Route: Inhalation - Species: Rabbit = 1689 mg/L - Duration: 1h

Test: LC50 - Route: Inhalation - Species: Rat = 850 mg/L - Duration: 2h

b) skin corrosion/irritation:

Test: Skin Corrosive Positive

c) serious eye damage/irritation:

Test: Eye Corrosive Positive

d) respiratory or skin sensitisation:

Test: Respiratory Sensitization Negative

Test: Skin Sensitization Negative

ethanol; ethyl alcohol - CAS: 64-17-5

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 124.7 mg/L - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 10470 mg/kg

e) germ cell mutagenicity:

Test: Genotoxicity - Route: Inhalation - Species: Rat > 20000 ppm

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat > 16000 ppm

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat = 1730 mg/kg - Source: 90 days

butanone; ethyl methyl ketone - CAS: 78-93-3

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Mouse > 5000 ppm

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

If not differently specified, the information required in Regulation (EU)2020/878 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.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration \geq 0.1%

SECTION 12: Ecological information

12.1. Toxicity

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

phosphoric acid 75%, orthophosphoric acid 75% - CAS: 7664-38-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 100 mg/L - Duration h: 48 - Notes: (statico, OECD 202, acqua dolce)

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- Endpoint: EC50 - Species: Algae > 100 mg/L - Duration h: 72 - Notes: (statico, OECD 201, acqua dolce)
- Endpoint: IC50 - Species: Algae = 590 mg/L
- Endpoint: LC50 - Species: Fish = 75.1 mg/L - Duration h: 96 - Notes: Oryzias latipes ethanol; ethyl alcohol - CAS: 64-17-5
- a) Aquatic acute toxicity:
- Endpoint: EC10 - Species: Algae = 675 mg/L - Duration h: 96 - Notes: Chlorella vulgaris
- Endpoint: EC50 - Species: Bacteria = 32100 mg/L - Notes: 15' Photobacterium phosphoreum
- Endpoint: LC50 - Species: Daphnia = 5012 mg/L - Duration h: 48 - Notes: Daphnia Ceriodaphnia dubia
- Endpoint: LC50 - Species: Fish = 15300 mg/L - Duration h: 96 - Notes: Pimephales promelas
- b) Aquatic chronic toxicity:
- Endpoint: NOEC - Species: Daphnia = 9.6 mg/L - Notes: 9 days butanone; ethyl methyl ketone - CAS: 78-93-3
- a) Aquatic acute toxicity:
- Endpoint: EC50 - Species: Daphnia = 308 mg/L - Duration h: 48
- Endpoint: EC50 - Species: Scenedesmus subspicatus = 2029 mg/L - Duration h: 96
- Endpoint: LC50 - Species: Fish = 2993 mg/L - Duration h: 48 - Notes: Pimephales promelas
- 12.2. Persistence and degradability
None
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. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
None

SECTION 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.

SECTION 14: Transport information

- 14.1. UN number or ID number
- | | |
|-----------------|------|
| ADR-UN number: | 3264 |
| IATA-Un number: | 3264 |
| IMDG-Un number: | 3264 |
- 14.2. UN proper shipping name
- | | |
|---------------------|--|
| ADR-Shipping Name: | Liquid Corrosive Inorganic, Acidic, n.o.s. (contains Phosphoric Acid) |
| IATA-Shipping Name: | CORROSIVE LIQUID, ACIDIC, INORGANIC. N.O.S. (contains Phosphoric Acid) |
| IMDG-Shipping Name: | CORROSIVE LIQUID, ACIDIC, INORGANIC. N.O.S. (contains Phosphoric Acid) |
- 14.3. Transport hazard class(es)
- | | |
|-------------|---|
| ADR-Class: | 8 |
| ADR-Label: | 8 |
| IATA-Class: | 8 |

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IATA-Label:	8
IMDG-Class:	8
14.4. Packing group	
ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
14.5. Environmental hazards	
Marine pollutant:	No
IMDG-EMS:	F-A, S-B
14.6. Special precautions for user	
ADR-Transport category (Tunnel restriction code):	E
Rail (RID):	8
IMDG-Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC. N.O.S. (contains Phosphoric Acid)
14.7. Maritime transport in bulk according to IMO instruments	
N.A.	

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

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None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method

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

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

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.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.