

Safety Data Sheet

MULTIPHOS MG (6 L CAN)



Safety Data Sheet dated 8/2/2023, version 4

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

1.1. Product identifier

Mixture identification:

Trade name: MULTIPHOS MG (6 L CAN)

Trade code: 148328

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

Recommended use:

Professional use.

Fertilizer for agricultural use

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 lenses, if present and easy to do. Continue rinsing.

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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%

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: 7664-38-2 EC: 231-633-2 REACH No.: 01- 2119485924 -24	3.2/1B Skin Corr. 1B H314
$\geq 15\%$ - $< 20\%$	potassium dihydrogenorthophosph ate	CAS: 7778-77-0 EC: 231-913-4 REACH No.: 01- 2119490224 -41	Substance with a Union workplace exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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:

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- 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.
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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
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:

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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

potassium dihydrogenorthophosphate - CAS: 7778-77-0

TLV TWA - 10 mg/m³

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

potassium dihydrogenorthophosphate - CAS: 7778-77-0

Worker Professional: 4.07 ppm - Consumer: 3.04 ppm - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

potassium dihydrogenorthophosphate - CAS: 7778-77-0

Target: Fresh Water - Value: 0.05 mg/l

Target: Marine water - Value: 0.005 mg/l

Target: Microorganisms in sewage treatments - Value: 50 mg/l

Target: STP - Value: 50 mg/l

8.2. Exposure controls

Eye protection:

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

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:	N.A.	--	--

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Odour:	None	--	--
Odour threshold:	n.d.	--	--
Melting point/freezing point:	n.a.	--	--
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:		--	(1% solution)
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Soluble	--	--
Solubility in oil:	n.d.	--	--
Partition coefficient n-octanol/water (log value):	n.d.	--	--
Vapour pressure:	n.d.	--	--
Density and/or relative density:	1500 +/- 10 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.	--	--

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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:

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

potassium dihydrogenorthophosphate - CAS: 7778-77-0

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 0.83 mg/L - Duration: 4h - Source:

Read-across study (CAS 14887-42-4) Klimisch reliable 2 - Notes: (OECD 403)

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: Read-across study (CAS 7558-80-7), Klimisch reliable 2 - Notes: (OECD 402)

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Source: Read-across study (CAS

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- 7778-77-0) Klimisch reliable 2 - Notes: (OECD 420)
- b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit Negative - Source: Read-across study (CAS 7778-77-0)
 - c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Negative - Source: Read-across study (CAS 7778-77-0)
 - d) respiratory or skin sensitisation:
Test: Respiratory Sensitization - Species: Mouse Negative - Source: Read-across study -
Notes: (OECD 429, CE B.42)
 - e) germ cell mutagenicity:
Test: Mutagenesis Negative
 - f) carcinogenicity:
Test: Carcinogenicity Negative
 - g) reproductive toxicity:
Test: NOAEL - Route: Oral - Species: Rat > 1000 mg/kg bw - Source: Read -across study
(CAS 7758-11-4) - Notes: (OECD 422)

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)
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
- potassium dihydrogenorthophosphate - CAS: 7778-77-0
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/L - Duration h: 96 - Notes: Trota iridea (OECD guideline 203)
Endpoint: LC50 - Species: Daphnia > 100 mg/L - Duration h: 48 - Notes: Daphnia magna (OECD guideline 202)
 - b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae > 100 mg/L - Duration h: 72 - Notes: Desmodesmus subspicatus (OECD 201)

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- f) Effects in sewage plants:
Endpoint: NOEC - Species: Bacteria = 1000 mg/L - Notes: (OECD guideline 209)
- 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
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
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)

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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
 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.

Hazard class and hazard category	Code	Description
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

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

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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
 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



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WGK: German Water Hazard Class.