

PHOSPHORIC ACID 85%

Safety Data Sheet

Date of issue: 05/02/2024

Revision date: 05/02/2024

Version: #1

SECTION 1: Identification

1.1. Identification

Product name	: Phosphoric Acid 85%
Product form	: Substance
EC number	: 231-633-2
CAS-No.	: 7664-38-2
Formula	: H ₃ PO ₄

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

Relevant identified uses	: General use.
Uses advised against	: Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

1.3. Supplier

FARSA Group Ltd
Sales@farsagroup.az

1.4. Emergency contacts

Emergency number : +994512707856

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Substance or mixture corrosive to metals, Category 1	: H290
Skin corrosion/irritation, Category 1	: H314
Serious eye damage/irritation, Category 1	: H318

2.2. Label elements

Pictogram



Signal word

: Danger

Hazard statements

: H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

: P260 Do not breathe dust/fume/gas/mist/vapours/spray.
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.
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/doctor.
P390 Absorb spillage to prevent material damage.
P501 Dispose of contents/container to industrial combustion plant.

2.3. Other hazards

Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

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Name of substance	Phosphoric Acid 85%
CAS No.	7664-38-2
EC No.	231-633-2
Molecular formula	H ₃ PO ₄
Molar mass	97.99 g/mol

SECTION 4: First-aid measures

4.1. Description of first aid measures

- General notes** : Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.
- Following inhalation** : If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.
- Following skin contact** : Wash with plenty of soap and water.
- Following eye contact** : Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
- Following ingestion** : Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media** : Water spray, BC-powder, Carbon dioxide (CO₂)
- Unsuitable extinguishing media** : Water jet.

5.2. Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

- Hazardous combustion products** : Phosphorus oxides (P_xO_y)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Remove persons to safety.
- For emergency responders** : Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2. Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3. Methods and materials for containment and cleaning up

- Advice on how to contain a spill** : Covering of drains.
- Advice on how to clean up a spill** : Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselguhr (diatomite), sand, universal binder
- Appropriate containment techniques** : Neutralization techniques. Use of adsorbent materials.
- Other information relating to spills and releases** : Place in appropriate containers for disposal. Ventilate affected area.

6.4. Reference to other section

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Recommendations** :
- Measures to prevent fire as well as aerosol and dust generation:**
Use local and general ventilation. Use only in well-ventilated areas. Never add water to this product.
 - Handling of incompatible substances or mixtures:**
Do not mix with alkali.
 - Keep away from:**
Caustic solutions

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Advice on general occupational hygiene : Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feeding stuffs.

7.2. Conditions for safe storage, including any incompatibilities

Managing of associated risks

Corrosive conditions:
Store in corrosive resistant container with a resistant inner liner.
Packaging compatibilities:
Only packaging's which are approved (e.g. acc. to ADR) may be used.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/mS]	STEL [ppm]	STEL [mg/mS]	Ceiling-C [ppm]	Ceiling-C [mg/mS]	Notation	Source
EU	Orthophosphoric Acid	7664-38-2	IOELV		1		2				2000/39/EC
GB	Orthophosphoric Acid	7664-38-2	WEL		1		2				EH40/2005

8.2. Exposure controls

Appropriate engineering controls

: General ventilation.

Eye/face protection

: Wear eye/face protection.

Hand protection

: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective glove's mentioned above together with the supplier of these gloves.

Other protection measures

: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

: In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

: Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	Auto-ignition temperature	Not determined
Colour	Clear	Decomposition temperature	Not relevant
Odour	Characteristic	Kinematic viscosity	Not determined
pH	0.5 (20 °C) (acid)	Solubility(ies)	Not determined
Melting/freezing point	21 °C	Partition coefficient n-octanol/water	Not relevant (inorganic)
Initial boiling point/range	158 °C	Vapour pressure	23 hPa at 20 °C
Flammability	Non-combustible	Density	1.7 g/cm ³
Lower/upper explosion limit	Not determined	Particle characteristics	No data available
Flash point	Not determined	-	-

9.2. Other information

Information with regard to physical hazard classes

: There is no additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. Substance or mixture corrosive to metals.

10.2. Chemical stability

See below "Conditions to avoid".

10.3. Possibility of hazardous reaction

No known hazardous reactions.

10.4. Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5. Incompatible materials

Bases

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10.6. Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity	: Shall not be classified as acutely toxic.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Shall not be classified as a respiratory or skin sensitizer.
Germ cell mutagenicity	: Shall not be classified as germ cell mutagenic.
Carcinogenicity	: Shall not be classified as carcinogenic.
Reproductive toxicity	: Shall not be classified as a reproductive toxicant.
Specific target organ toxicity - single exposure	: Shall not be classified as a specific target organ toxicant (single exposure).
Specific target organ toxicity - repeated exposure	: Shall not be classified as a specific target organ toxicant (repeated exposure).
Aspiration hazard	: Shall not be classified as presenting an aspiration hazard.

11.2. Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1. Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2. Persistence and degradability

Data are not available.

12.3. Bioaccumulative potential

Data are not available.

12.4. Mobility in soil

Data are not available.

12.5. Results of PBT and vPvB assessment

Data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment-relevant information	: Recycling/reclamation of other inorganic materials. Regeneration of acids.
Sewage disposal-relevant information	: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.
Waste treatment of containers/packaging's	: It is a dangerous waste; only packaging's which are approved (e.g. acc. to ADR) may be used. Completely emptied pack- ages can be recycled. Handle contaminated packages in the same way as the substance itself.

13.2. Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID/ADN/IMDG/ICAO) : 1805

14.2. UN proper shipping name

Proper shipping name (ADR/RID/ADN/IMDG/ICAO) : PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es)

Class (ADR/RID/ADN/IMDG/ICAO) : 8

14.4. Packing group

Packing group (ADR/RID/ADN/IMDG/ICAO) : III

14.5. Environmental hazards

Non-environmentally hazardous acc. to the dangerous goods regulations.

14.6. Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

SECTION 15: Regulatory information

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

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Deco-Paint Directive (2004/42/EC)

VOC content	0 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	0 %
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National inventories

Country	Inventory	Status
AU	AIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text