	MATERIAL SAFETY DATA SHEET	MSDS No.	M-01
	PHOSPHORIC ACID	Effective From	06/01/2022

1. Chemical Product and Company Identification

Product Name: Phosphoric acid, 85%

RTECS: Not applicable.

TSCA: TSCA 8(b) inventory: Phosphoric Acid; Water

CI#: Not available.

Synonym: Phosphoric Acid 85%; Phosphoric Acid; Orthophosphoric acid

Chemical Name: Not applicable.

Chemical Formula: Not applicable.

Supplier:

Company : Bloomchemag BV

Address : Sint - Antoniusstraat 16 b1, B-2400 Mol, Belgium.

Phone No. : +91 72919 74484 / 72919 74050

Email : info@bloomchemag.com

2. Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight	EC No.
Phosphoric Acid	7664-38-2	75-85	231-633-2
Water	7732-18-5	15-25	231-791-2

3. Hazards Identification

Hazard class and label elements of the product according to GHS (the seventh revised edition):

> GHS Hazard Class

Acute Toxicity – Oral Category 4

Acute Toxicity – Category 5

Dermal

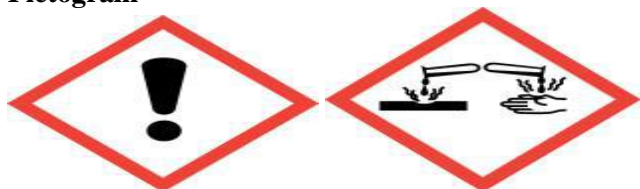
Skin

Corrosion/Irritation Corrosion/Irritation Category 1


Eye Damage/Irritation Category 1

> GHS Label Elements GHS Label Elements

Pictogram



Signal Word Danger

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> Hazard Statements

- H302** Harmful if swallowed Harmful if swallowed
- H313** May be harmful in contact with skin
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage

> Precautionary Statements Precautionary Statements

Prevention

- P260** Do not breathe dust/fume/gas/mist/vapors/spray.
- P264** Wash thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P280** Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P312** Call a POISON CENTER/doctor, if you feel unwell.
- P330** Rinse mouth.
- P363** Wash contaminated clothing before reuse.
- P301+P312** IF SWALLOWED: Call a POISON CENTER/ doctor, if you feel unwell.
- P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. With water/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.

Storage

- P405** Store locked up.

Disposal

- P501** Dispose of contents/container in accordance with local/regional/national/International regulations.

4. First Aid Measures

>Description of First Aid Measures

General Advice

Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.

Inhalation


Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of First-aiders

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long long-term occupational exposure.

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> **Indication of Any Immediate Medical Attention and Special Treatment Needed**

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

5. Firefighting measures

> **Extinguishing Media**

Suitable Extinguishing

Media Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable Do not use a solid water stream as it may scatter or spread fire.

Extinguishing Media

> **Specific Hazards Arising from the Substance or Mixture**

- 1 Fire may produce irritating, poisonous or corrosive gases.
- 2 Containers may explode when heated.
- 3 Fire exposed containers may vent contents through pressure relief valves.
- 4 May expansion or decompose explosively when heated or involved in fire.

> **Advice for Firefighters**

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

> **Personal Precautions, Protective Equipment and Emergency Procedures**

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapors, mist, gas or dust.

> **Environmental Precautions**

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.


> **Methods and Materials for Containment and Cleaning Up**

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark spark-proof tools and explosion explosion-proof equipment.

7. Handling and Storage

> **Precautions for Handling**

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.

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- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

> **Precautions for Storage**

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
 - 4 Store away from incompatible materials and foodstuff containers.

8. Exposure Controls/Personal Protection

➤ **Control Parameters**

Occupational exposure limit values

Component	Country/Region	Limit Value-Eight Hours		Limit Value-Short Term	
		Ppm	mg/cm ³	Ppm	mg/cm ³
Orthophosphoric acid 7664-38-2	USA-OSHA	-	1	-	-
	South Korea	-	1	-	3
	Ireland	-	1	-	2
	Germany (AGS)	-	2	-	4
	Denmark	-	1	-	2
	Australia	-	1	-	-

Biological Limit Values

No information available

Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.8 -2004 Determination of toxic substances in workplace air air (Series standard standard) .

> **Engineering Controls**

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.


> **Personal Protection Equipment**

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

Hand Protection Wear protective gloves (such as butyl rubber rubber) , passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Respiratory protection If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full full-face respira tor with multi multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and Body Protection Wear fire/flame resistant/retardant clothing and antistatic boots.

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9. Physical and Chemical Properties

Appearance: Colorless transparent liquid
Odor Threshold: No information available
Melting Point/Freezing Point (°C): No information available
Flash Point (°C)(Closed Cup): No information available
Flammability: Not applicable

Vapor Pressure (MPa): No information available

Relative Density(Water=1): No information available
n-Octanol/Water Partition Coefficient: No information available
Decomposition Temperature (°C): No information available
Particle characteristics: Not applicable

Odor: No information available
pH: < 1
Initial Boiling Point and Boiling Range (°C): No information available
Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit : No information available ; Lower limit : No information available
Relative Vapour Density(Air = 1): No information available
Solubility: No information available

Auto-Ignition Temperature(°C): No information available
Kinematic Viscosity (mm²/s): No information available

10. Stability and Reactivity Data

Reactivity
Chemical Stability
Possibility of Hazardous Reactions

Contact with incompatible substances can cause decomposition or other chemical reactions. Stable under proper operation and storage conditions. In contact with non-metallic elementals or organics causes a fire or explosion. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.

Conditions to Avoid
Incompatible Materials

Incompatible materials, heat, flame and spark. Non-metallic elementals, organics and fibre material. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, non-metal oxide, acyl halide and metal phosphide.

Hazardous Decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.


11. Toxicological Information

>Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation,4h)
Orthophosphoric acid	7664-38-2	1530mg/kg(Rat)	2740mg/kg(Rabbit)	No information available

> Skin Corrosion/Irritation

Causes severe skin burns and eye damage (Category 1)

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> **Serious Eye Damage/Irritation**

Causes serious eye damage (Category 1)

> **Skin Sensitization**

No information available

> **Respiratory Sensitization**

No information available

> **Germ Cell Mutagenicity**

No information available

> **Carcinogenicity**

ID	CAS NO.	Component	IARC	NTP
1	7664-38-2	Orthophosphoric acid	Not Listed	Not listed
2	7732-18-5	Water	Not Listed	Not listed

> **Reproductive Toxicity**

No information available

> **Reproductive Toxicity (Additional)**

No information available

> **STOTSTOT-Single Exposure**

No information available

> **STOTSTOT-Repeated Exposure**

No information available

> **Aspiration Hazard**

No information available

12. Ecological Information

> **Acute Aquatic Toxicity**

No information available

> **Chronic Aquatic Toxicity**

No information available

> **Others**

Persistence and Degradability No information available

Bioaccumulative

Potential No information available

Mobility in Soil No information available


Results of PBT and

vPvB assesment

Regulation (EC) No 1907/2006, annex XIII.

Orthophosphoric acid does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Water does not meet the criteria for PBT and vPvB according to

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13. Disposal Considerations

Waste Chemicals

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated Packaging

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Disposal Recommendations

Refer to section 13.1 and 13.2.

14. Transport Information

Transporting Label



Marine pollutant None

UN Number 1805

UN Proper Shipping Name PHOSPHORIC ACID, SOLUTION

Transport Hazard Class 8

Transport Subsidiary None

Hazard Class

Packing Group III

15. Other Regulatory Information

>International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Orthophosphoric acid	√	√	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances.


【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

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【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing And New Chemical Substances.

Note

“√” Indicates that the substance included in the regulations

“×” That no data or included in the regulations

16. Other Information

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.