

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Phosphoric Acid 85% Solution

CAS number 7664-38-2

Synonyms Superphosphoric acid; phosphorsaeure.

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

Identified uses Fertilizer; pH modifier; cleaner (injection systems); food addictive;

chemical treatment of metal surfaces; water treatment; acidifier.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity if swallowed Category 4
Corrosive to metals Category 1
Skin corrosion Category 1B

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements Harmful if swallowed. May be corrosive to metals. Causes severe skin

burns and eye damage.

Precautionary statements

Keep only in original container. Wear protective gloves/face protection/protection clothing/protection footwear. IF SWALLOWED: rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a poison center/doctor.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Non-applicable.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Phosphoric acid	Superphosphoric acid	7664-38-2	82-87%
Water	H2O	7732-18-5	<15%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled This product does not contain substances classified as hazardous for inhalation,

however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the

symptoms get worse or persist.

In case of skin contact Remove contaminated clothing and footwear, rinse skin or shower the person

affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it stuck to the skin. If

blisters form on the skin, these should never be burst as this will increase the risk

of infection.

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In case of eye contact Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow

the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be remove unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted

as quickly as possible with the SDS of the product.

If swallowed Request immediate medical assistance, showing the SDS of this product. Do not

induce vomiting, because its expulsion form the stomach can be hazardous to the mucous of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss and consciousness do not administrate anything

orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Product is non-flammable under normal conditions of

storage, handling and use. In the case of combition as a result of improper handling, storage or use perferrable use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on

fire protection systems.

Unsuitable extinguishing media No information.

5.2 Specific hazards arising from the substance or mixture

As a result of combustion or thermal decomposition reactice sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for firefighters

Depensing on the magnitude of the fire it may be necessary to us full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first air kit).

5.4 Further information

Flash Point Non Flammable

Autoignition Temperature No information available.

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Explosion limits

UpperNo information available.LowerNo information available.Sensitivity to Mechanical ImpactNo information available.Sensitivity to Static DischargeNo information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the split product (see section 8). Evacuate the area and keep out those who do not have protection. Emergency responders: wear protective equipment. Keep unprotected person away. (See section 8).

6.2 Environmental precautions

The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply. It is the responsibility of the waster generator to evaluate whether his wastes are hazardous by characteristics or listing.

6.3 Methods and materials for containment and cleaning up

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal condult section 13.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

General precuations for safe use: Comply with the current standards 19 CFR 1910 Occupational Safety and Health Standards. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used. KEEP ONLY IN ORIGINAL CONTAINER.

Technical recommendations for the prevention of fires and explosion: Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended of transfer at slow speeds to avoid the generation of electrostatic charges that can affects flammable products. Consult section 10 for information on conditions and materials that should be avoided.

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Technical recommedations to prevent environmental risks: It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3).

Hygiene measures

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Maximum temperature: 95 °F.

Incompatibilities

Avoid sources of heat, radiation, static electricity and contact with food. For additional information, see subsection 10.5.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Phosphoric acid	8-hour TWA PEL	1 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
Phosphoric acid	TLV-TWA	1 mg/m3
	TLV-STEL	3 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	
Phosphoric acid	REL-TWA	1 mg/m3	
	REL-ST	3 mg/m3	
	IDLH	1000 mg/m3	

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

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Individual protection measures, such a personal protective equipment. As a preventive measure it is recommended to us basic Personal Protection Equipment. For more information on Person Protection Equipment (storage, use, cleaning, maintenance, class of protection) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information container herein is a recommendation, the application, the provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risk for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 19 CFR 1910.132.

Personal protective equipment

Eye/face protection

Safety glasses with side shields or goggles. Face shield. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR).

Skin protection

Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: >480 min, Thickness: 0.062 mm). The Breakthrough Time indiciated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

Body Protection

Disposiable clothing for protection against chemical risks. For professional use only. Clean periodically according to the manufacturer's instructions.

Respiratory protection

Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed.

Control of environmental exposure

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information, see subsection 7.1.D.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid

Appearance Clear, colorless
Odor Odorless

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Odor Threshold No information available pH No information available

Melting Point/Range 70 °F

Boiling Point/Range 236 - 343 °F

Evaporation Rate No information available Flammability (solid) No information available

Flammability or explosive limit

Upper No information available
Lower No information available
Vapor Pressure No information available

Vapor Density 3.4
Density 1.685

Solubility

Partition coefficient; n-octanol/water

Autoignition Temp

No information available
No information available

Decomposition Temp >316 °F

Viscosity No information available

Molecular Formula H3PO4
Molecular Weight 98.00 g/mol
VOC Content(%) 0% weight

Oxidizing properties No information available

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid

Shock and friction, contact with air, increase in temperature, sunlight, humidity.

10.5 Incompatible materials

Acids, water, oxidising materials, combustible materials, avoid alkalis and strong bases.

10.6 Hazardous decomposition products

See subsection 10.3, 10.4, and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions comples mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid	1250 mg/kg (mouse)	2740 mg/kg (rabbit)	>5 mg/L

Skin corrosion/irritation

Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns.

Serious eye damage/eye irritation

Produces serious eye damage after contact.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

Germ cell mutagenicity

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Phosphoric acid	7664-38-2	Not listed				

Specific target organ toxicity - single exposure

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Specific target organ toxicity - repeated exposure

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Reproductive toxicity

No additional information available.

Chronic effects

No additional information available.

11.2 Additional Information

Non-applicable.

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SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-No UN1805

Proper Shipping Name PHOSPHORIC ACID, SOLUTION

Hazard Class 8
Packing Group III

IMDG

UN-No UN1805

Proper Shipping Name PHOSPHORIC ACID, SOLUTION

Hazard Class 8
Packing Group | | | |

IATA

UN-No UN1805

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Proper Shipping Name PHOSPHORIC ACID, SOLUTION

Hazard Class 8
Packing Group III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Not listed.

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor

Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Listed

US. New Jersey Worker and Community Right-to-Know Act

Listed

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US. Pennsylvania Worker and Community Right-to-Know Law Listed

California Proposition 65

Not listed

SECTION 16: Other information

Issue date: 10/19/2009 Revision 1: 04/12/2024 Revision 2: 08/06/2024

SECTION 17: Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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