

# **SAFETY DATA SHEET**

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

#### 1.1 Product identifiers

Product name

Phosphotungstic acid

CAS number

12501-23-4

Synonyms

Tungstophosphoric acid hydrate

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

Identified uses

Laboratory chemicals.

# 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)

Skin Corrosion/Irritation (Category 1B)

Serious Eye Damage/Eye Irritation (Category 1)

Specific Target Organ Toxicity - single exposure (Category 3)

Target Organ - Respiratory System

## 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements Causes severe skin burns and eye damage

May cause respiratory irritation

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Immediately call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

Wash contaminated clothing before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Store locked up

Store in a well-ventilated place. Keep container tightly closed Dispose of contents/container to an approved waste disposal plant

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

None identified.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Phosphotungstic acid hydrate	Tungstophosphoric acid hydrate	12501-23-4	> 95%	

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

#### General advice

**If inhaled** Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial

respiration.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediate

medical attention is required.

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In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

If swallowed Do NOT induce vomiting. Call a physician or poison control center

immediately.

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

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

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

Note to Physician: Treat Symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Carbond dioxide (CO2), dry chemical, dry sand,

alcohol-resistant foam.

**Unsuitable extinguishing media** No information available.

# 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

UpperNo information available.LowerNo information available.

Sensitivity to Mechanical Impact No information available.

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# Sensitivity to Static Discharge

No information available.

#### **NFPA**

Health	ealth Flammability		Physical hazards		
3	0	0	N/A		

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

# 6.2 Environmental precautions

Should not be released into the environment.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 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

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wash hands before breaks and immediately after handling the product.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

## Incompatibilities

Strong oxidizing agents. Strong bases.

## **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
Phosphotungstic	TWA	5 mg/m3

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acid hydrate	STEL	10 mg/m3

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value	
Phosphotungstic acid hydrate	TWA	3 mg/m3	

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value		
Phosphotungstic	TWA	5 mg/m3		
acid hydrate	STEL	10 mg/m3		

#### Biological occupational exposure limits

No information available.

## 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

# Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves.

## **Body Protection**

Wear appropriate protective clothing to prevent skin exposure.

## Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

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Physical State Solid

Appearance Light cream

Odor No information available.
Odor Threshold No information available.
pH No information available.
Melting Point/Range No information available.
Boiling Point/Range No information available.

Evaporation Rate Not applicable.

Flammability (solid) No information available.

Flammability or explosive limit

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

Vapor Density Not applicable.

Density

No information available.

Solubility

No information available.

Viscosity Not applicable.

Molecular Formula H3O40PW12 \* xH2O

Molecular Weight 2880.17

VOC Content(%)

Oxidizing properties

No information available.

No information available.

# 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

None known, based on information available.

# 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat.

## 10.5 Incompatible materials

Strong oxidizing agents. Strong bases.

# 10.6 Hazardous decomposition products

Oxides of phosphorus, phosphorus trihydride (phosphine)

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# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

#### **Acute toxicity**

No acute toxicity information is available for this product.

#### Skin corrosion/irritation

Causes burns by all exposure routes.

## Serious eye damage/eye irritation

Causes burns by all exposure routes.

#### Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Phosphotungstic acid hydrate	12501-23-4	Not listed				

# Specific target organ toxicity - single exposure

Respiratory system.

# Specific target organ toxicity - repeated exposure

None known.

#### Reproductive toxicity

No information available.

#### **Chronic effects**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

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No information available.

## 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Wil likely be mobile in the environment due to its water solubility.

#### 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 UN3260

Proper Shipping Name Corrosive solid, acidic, inorganic, n.o.s

Hazard Class 8
Packing Group III

**IMDG** 

UN-no UN3260

Proper Shipping Name Corrosive solid, acidic, inorganic, n.o.s

Hazard Class 8
Packing Group III

**IATA** 

UN-no UN3260

Proper Shipping Name Corrosive solid, acidic, inorganic, n.o.s

Hazard Class 8
Packing Group III

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# **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)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not listed.

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

See section 2 for more information.

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** 

Not listed.

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

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Not listed.

# US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

## **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

Issue date: 10/01/2024

## **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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