



1. IDENTIFICATION

Product Name Phosphorus Acid 99% Synthesis of substances Recommended use Supplier Valudor Products, LLC.

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2. HAZARD IDENTIFICATION

Classification

This product is considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Acute Tox. (Oral)	Category 4
Skin Corrosion/Irritation	Category 1
Eye Damage/Irritation	Category 1
Corrosive to metals	Category 1

Label Elements

GHS Pictograms



Signal Word Danger

Hazard Statements May be corrosive to metals Harmful if swallowed

Causes severe skin burns and eye damage

Precautionary Statements

Keep only in original container -Prevention

Wash thoroughly after handling
Do not eat, drink or smoke when using this product

Do not breathe dusts or mists

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

Absorb spillage to prevent material damage Wash contaminated clothing before reuse.

-Response

Immediately call a poison center/doctor
If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable

Skin

Inhalation

for breathing.

If swallowed: Rinse mouth. Do NOT induce vomiting Ingestion

If swallowed: Call a poison center/doctor if you feel unwell

Eye

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

-Storage Store in corrosive resistant container with a resistant inner

liner.

Store locked up

-Disposal Dispose of contents in accordance with

local/regional/national regulations.

Hazards not other classified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS-No	Weight-%
Phosphorous acid	13598-36-2	>=99

4. FIRST-AID MEASURES

First Aid Measures

If exposed or concerned get medical advice. Show this safety General Advice

data sheet to the doctor in attendance.

Immediately rinse with plenty of water. Remove contact **Eye Contact**

> lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes.

immediate medical attention.

Wash off immediately with plenty of water for at least 15 Skin Contact

minutes. Immediately remove all contaminated clothes and

shoes. Seek immediate medical attention.

Inhalation Remove to fresh air. If not breathing, give artificial

respiration. Get medical attention.

Do not induce vomiting without medical advice. Rinse Ingestion

mouth with water. Never give anything by mouth to an

unconscious person. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms After inhalation: Irritations of the mucous membranes,

coughing, and dyspnoea.

After skin contact: irritant and caustic effects.

After eve contact: irritant and caustic effects, severe mucosal

irritations. Risk of corneal clouding.

After swallowing: irritations of mucous membranes in the

mouth, pharynx, esophagus and gastrointestinal tract

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media Powder. Alcohol resistant foam. Water spray (fog). Carbon

dioxide (CO2).

Unsuitable Extinguishing Media No information available

Specific Hazards Arising from the chemical

Contact with metals may evolve flammable hydrogen gas.

Hazardous combustion

products

Thermal decomposition can lead to the release of irritation or

toxic gases and vapors; including and not limited to:

Phosphorus oxides

Protective equipment and precautions for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Do not breathe

dust/fume/vapor/spray. Evacuate personnel to safe areas. Use personal protection recommended in Section 8. Ensure

adequate ventilation.

Methods and materials for containment and cleanup

Methods for clean-up Collect spillage. Keep unauthorized personnel away. Keep in

suitable closed containers for disposal.

Environmental Precautions Prevent entry into waterways or sewers. Avoid release to the

environment.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in a well-ventilated environment. Do not breathe vapors / spray / mist / fume. Avoid contact with skin, eyes or clothing. Wear personal protective equipment in section 8. Wash contaminated clothing before reuse. Wash thoroughly after handling. Wash before breaks and at the end of the workday. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep containers closed and labeled when not in use. Store locked up. Store in corrosive resistant container. Store under inert gas. Air sensitive.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies.

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

Personal Protective Equipment

Eye/face protection Tightly fitting safety goggles.

Skin protection Long sleeved protective clothing. Choose the appropriate

protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves. The following materials are suitable for protective gloves

(Permeation time \geq 8 hours):

Natural rubber/Natural latex - NR (0.5 mm) (use non-

powdered and allergen free products)
Polychloroprene - CR (0.5 mm)

Nitrile rubber/Nitrile latex - NBR (0.35 mm)

Butyl rubber - Butyl (0.5 mm)

Fluoro carbon rubber - FKM (0.4 mm) Polyvinyl chloride - PVC (0.5 mm)

Respiratory protection If exposure limits are exceeded or if irritation or other

symptoms are experienced use a NIOSH/MSHA approved

respirator.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

practices. Do not eat, drink or smoke when using this

product.

9. PHYSICAL and CHEMICAL PROPERTIES

AppearanceWhitePhysical stateSolidOdorOdorless

Odor threshold No information available pH < 1 in a 1% aqueous solution

Melting point / freezing point Boiling point / Boiling range62.5 C / 144 F
258 C / 496 F

Flash point No information available

Evaporation rate Not applicable

Flammability No information available

Flammability or explosive

limits

UpperNo information availableLowerNo information available

Vapor pressure <1 hPa at 20C

Vapor density No information available Specific Gravity 1.837 g/cm3 at 20C

Solubility in water Soluble

Partition coefficientNo information availableAuto-ignition temperatureNo information availableDecomposition temperatureNo information availableViscosityNo information available

10. STABILITY AND REACTIVITY

Reactivity None known under normal conditions.

Chemical stability Stable under ordinary conditions of use and storage.

Possibility of hazardous None known under normal processing.

reactions

Conditions to avoid Exposure to air or moisture over prolonged periods.

Incompatible materials Strong bases. Oxidizing agent. Metals.

Hazardous decomposition

Hazardous combustion can lead to the release of irritating

products gases and vapors.

11. TOXICOLOGICAL INFORMATION

<u>Information on likely routes of exposure</u>

Skin contactCauses serious skin damageEye contactCauses serious eye damage

InhalationHarmful if inhaledIngestionHarmful if swallowed

Symptoms related to the physical chemical and toxicological characteristics

No information available

Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritation Causes severe skin burns
Eye damage/irritation Causes serious eye damage

Sensitization

Mutagenic effects
Carcinogenicity
Reproductive toxicity
STOT – single exposure
STOT – repeated exposure
Aspiration hazard

Not classified
Not classified
Not classified
Not classified
Not classified

Acute Toxicity

Component information

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorous acid	13598-36-2	1560 mg/kg	=	=

12. ECOLOGICAL INFORMATION

Ecotoxicity Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Phosphorous acid	LC50: >100 mg/L/96 h	EC50: 153 mg/L/72h	EC50: >1000 mg/l/48h
13598-36-2	(Cyprinus carpio)	(Pseudokirchnerella	(Daphnia magna)
		Subcapitata)	

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Regulated UN-No 2834

Proper Shipping Name Phosphorous Acid

Hazard Class 8
Packing Group III

IATA Regulated UN-No 2834

Proper Shipping Name Phosphorous Acid

Hazard Class 8
Packing Group III

IMDG Regulated
UN-No 2834

Proper Shipping Name Phosphorous Acid

Hazard Class 8
Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

US Federal Regulations

TSCA section 12(b) Export Notification

Not regulated

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Not applicable

SARA 311/312 Hazard Categorization

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No

Pressure No Reactivity No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Not Applicable

CWA (Clean Water Act)

Not Applicable

US State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals

16. OTHER INFORMATION

NFPA Ratings Health: 3 Flammability: 0 Reactivity: 1

Creation Date: 9/19/2019

Revision Date:

Revision Number: 1

Revision Information: Creation

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 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.