

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-12

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

1.1 Product identifiers

Product name : Silver phosphate

Product Number : \$293663 Brand : aladdin CAS-No. : 7784-09-0

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute (short term) aquatic hazard (Category 1), H400

Long term aquatic hazard (Category 1), H410

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word

Warning

Hazard statement(s)

H315 Causes skin irritation

H319 Causes serious eye irritation
H335 May cause respiratory irritation



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Precautionary	statement(s	;)
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P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see ... on this label).
P302+P352 IF ON SKIN: wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved waste disposal plant.
P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

P337+P317 If eye irritation persists: Get medical help.
P332+P317 If skin irritation occurs: Get medical help.
P319 Get medical help if you feel unwell.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Silver orthophosphate; Trisilver phosphate

Formula : Ag3PO4

Molecular weight : 418.58

CAS No. : 7784-09-0

EC-NO. : 232-049-0

Component	Classification	Concentration
Silver phosphate		
	Acute (short-term) aquatic hazard category 1; Long term aquatic hazard category 1; H400, H410 M-factor aquatic act: 1,000 - Aquatic Chronic: 100	≥98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a doctor. Show this safety instruction to the doctor on site.



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If inhaled

If inhaled, move the patient to fresh air. If breathing stops, perform artificial respiration. Consult a doctor.

In case of skin contact

Rinse with soap and plenty of water. Consult a doctor.

In case of eye contact

Wash eyes carefully with water

If swallowed

Do not feed anything to the unconscious. Gargle with water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labels (see Chapter 2.2) and/or Chapter 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water mist, alcohol resistant foam, dry powder or carbon dioxide to extinguish fire.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Oxides of phosphorus, silver / silver oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust generation. Avoid inhaling vapor, mist or gas. Ensure adequate ventilation. For personal protection, see Part 8.

6.2 Environmental precautions

If safety can be ensured, measures can be taken to prevent further leakage or overflow. Do not let the product enter the sewer. Avoid discharging into the surrounding environment.

6.3 Methods and materials for containment and cleaning up

Do not generate dust during collection and disposal. Sweep and shovel. Place in a suitable closed container for disposal.



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6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

In places where dust is generated, provide suitable exhaust equipment. For preventive measures, see Chapter 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container closed and store in a dry and ventilated place.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

For face masks and safety glasses, please use equipment that has been tested and approved by official standards such as NIOSH (USA) or en 166 (EU) for eye protection.

Skin protection

Gloves must be checked before use. Please use the correct method to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please operate the contaminated gloves carefully according to the relevant laws and regulations and effective laboratory procedures and procedures. Please clean and blow dry the protective gloves selected for your hands, which must meet the specifications given in regulation (EU) 2016 / 425 and the derived en 374 standard.

Body Protection

Impermeable clothing, flame retardant and anti-static protective clothing, and the type of protective equipment must be selected according to the concentration and content of hazardous substances in the specific workplace.

Respiratory protection

If the hazard assessment shows that air purification mask is required, please use the full cover multi-function gas mask (US) or abek type (EN 14387) gas mask cylinder as the alternate for engineering control. If the gas mask is the only way to protect, use a full cover air supply mask. Respirators are used respirators and parts that have been tested and passed government standards such as NIOSH (US) or cen (EU).

Control of environmental exposure



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If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance no data available b) Odour no data available c) Odour Threshold no data available d) pH no data available e) Melting point/freezing point no data available f) Initial boiling point and boiling range no data available no data available g) Flash point no data available h) Evaporation rate i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive

limits no data available no data available k) Vapour pressure no data available I) Vapour density m) Relative density no data available no data available n) Water solubility o) Partition coefficient: n-octanol/water no data available no data available p) Auto-ignition temperature no data available q) Decomposition temperature r) Viscosity no data available s) Explosive properties N no data available no data available t) Oxidizing properties N

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available



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10.5 Incompatible materials

Strong oxidant strong oxidant

10.6 Hazardous decomposition products

In case of fire, it will decompose into harmful substances- Oxides of phosphorus, silver / silver oxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 oral - rat - > 5000 mg / kg

Note: the information given is based on analogue data.

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eye - rabbit results: no eye irritation remarks: the information given is based on analogue data.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

All the components in the product with a content of 0.1% or more are not identified as known or possible carcinogens by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

It may cause silver poisoning (the skin and deep tissues are blue or blue gray due to the deposition of insoluble white matter caused by silver). As far as we know, the chemical, physical and toxic properties have not been fully studied.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish:

Semi static test LC50 - Pimephales promelas - 0.0012 mg / L - 96 h remarks: cross reference (analogy)



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Flow test EC10 - Oncorhynchus mykiss - 0.00017 mg / L - 196 D remarks: cross reference (analogy)

Toxicity to Daphnia and other aquatic invertebrates:

Semi static test LC50 - Daphnia magna - 0.00022 mg / L - 48 h remarks: cross reference (analogy)

EC50 - Daphnia magna - 0.00617 mg / L - 21 d remarks: cross reference (analogy)

Toxicity to algae:

EC10 - Algae - 0.00066 mg/l - 15 d

Remarks: cross reference (analogy)

12.2 Persistence and degradability

This method for determining biodegradability is not suitable for inorganic compounds

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

It is highly toxic to aquatic organisms and has long-term and sustained effects.

SECTION 13:

13.1 Disposal considerations

Product

Leave the remaining and non recyclable solutions to a licensed company for disposal. To dissolve or mix with flammable solvents and burn in a chemical incinerator with post combustion treatment and brush action

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 3077 Packing group: III Class: 9

 $Proper \ shipping \ name: Solid \ substance \quad Reportable \ Quantity (RQ): no \ data \qquad \quad Poison \ Inhalation \ Hazard: no \ data$

harmful to the environment, not available available

otherwise specified (silver phosphate)



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Environmental Hazards: Yes

IMDG

UN number: 3077 Packing group: III EMS-No: no data available

Proper shipping name: Solid substance harmful to the environment, not otherwise specified (silver phosphate)

IATA

UN number: 3077 Packing group: III Class: 9

Proper shipping name: Solid substance harmful to the environment, not otherwise specified (silver phosphate)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Prepared By Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com

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