

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-16

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

1.1 Product identifiers

Product name : Trimethyl phosphite

Product Number : T106148
Brand : aladdin
CAS-No. : 121-45-9

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)

Flammable liquids (Category 3), H226

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 5), H313

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), respiratory

2.2 GHS Label elements, including precautionary statements



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| Pictogram | | | |
|------------------------------|---|--|--|
| Signal word | Warning | | |
| Hazard statement(s) | | | |
| H226 | Flammable liquid and vapor | | |
| H302 | Harmful if swallowed May be harmful in contact with skin Causes skin irritation Causes serious eye irritation | | |
| H313 | | | |
| H315 | | | |
| H319 | | | |
| H335 | May cause respiratory irritation | | |
| H373 | Causes damage to organs through prolonged or repeated exposure | | |
| Precautionary statement(s) | | | |
| P210 | Keep away from heat, hot surface, sparks, open flames and other ignition | | |
| | sources No smoking. | | |
| P233 | Keep container tightly closed. | | |
| P240 | Ground/bond container and receiving equipment. | | |
| P241 | Use explosion-proof [electrical/ventilating/lighting//] equipment. | | |
| Use only non-sparking tools. | | | |
| P243 | Take precautionary measures against static discharge. | | |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. | | |
| P264 | Wash hands [and] thoroughly after handling. | | |
| P270 | Do not eat, drink or smoke when using this product. | | |
| P271 | Use only outdoors or in a well-ventilated area. | | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | | |
| P312 | Call a POISON CENTER or doctor/ if you feel unwell. | | |
| P303+P361+P353 | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SK with water [or 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. | | |
| P332+P313 | IF SKIN irritation occurs: Get medical advice/attention. | | |
| P337+P313 | IF eye irritation persists: Get medical advice/attention. | | |
| P370+P378 | In case of fire: Use to extinguish. | | |
| P405 | Store locked up. | | |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. | | |
| P403+P235 | Store in a well-ventilated place. Keep cool. | | |
| P501 | Dispose of contents/container to an approved waste disposal plant. | | |
| P301+P312+P330 | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. | | |
| P304+P340+P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.Call a POISON CENTER or doctor. if you feel unwell. | | |
| | | | |

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



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SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : P(OMe)3;Trimethoxyphosphine

Formula : C3H9O3P

Molecular weight : 124.08

CAS No. : 121-45-9

EC-NO. : 204-471-5

| Component | Classification | Concentration |
|---------------------|-------------------|---------------|
| Trimethyl phosphite | | |
| | no data available | 98% |

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 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

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Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides Oxides of phosphorus Combustible. Caution! in contact with water product releases: Strong acids Fire may cause evolution of: Oxides of phosphorus Vapors are heavier than air and may spread along floors. May not get in touch with: Water Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

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 formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for

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incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, ventilated warehouse.

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

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

Control of environmental exposure

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

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a) Appearance form: Liquid color: Colorless

b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point -78°C f) Initial boiling point and boiling range 112°C g) Flash point 28°C

h) Evaporation rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or

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

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

can decompose violently in contact with: Water Risk of explosion with: perchlorates Violent reactions possible with: Bases sulfur halogens dimethylsulfate organic halides acids

10.4 Conditions to avoid

Thermal decomposition of this product in combination with trimethylol propane, trimethylol propane derived products or their corresponding alkane analogs may result in the production of bicyclic phosphates or phosphites. Bicyclic phosphates and phosphites are products that display acute neurotoxic properties such as characteristic convulsive seizures Do not allow water to enter container. Heating. Moisture.



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10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 1,600 mg/kg

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.,

Nausea, Vomiting, Diarrhea

Remarks: (RTECS)

Inhalation: Irritating to respiratory system.

LD50 Dermal - Rabbit - 2,600 mg/kg

Remarks: (RTECS)

Skin corrosion/irritation

Skin - Rabbit Result: Irritations (Draize Test) Remarks: (RTECS)

Serious eye damage/eye irritation

Eyes - Mammal Result: Mild eye irritation (Draize Test

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Cough, Shortness of breath, Headache, Nausea, Vomiting, Aspiration or inhalation may cause chemical pneumonitis.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated. After absorption: Headache Other dangerous properties can not be excluded.



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Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

no data available

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

Possible decomposition products in case of hydrolyzis are: phosphoric acid Biological effects: Harmful effect due to pH shift. Discharge into the environment must be avoided.

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2329 Packing group: III Class: 3

Proper shipping name: TRIMETHYL Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

PHOSPHITE available available

Environmental Hazards: no

IMDG

UN number: 2329 Packing group: III EMS-No: no data available



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Proper shipping name: TRIMETHYL PHOSPHITE

IATA

UN number: 2329 Packing group: III Class: 3

Proper shipping name: TRIMETHYL PHOSPHITE

SECTION 15: Regulatory information

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

SECTION 16: Other information

Regulatory Affairs

Prepared By ALADDIN SCIENTIFIC CORPORATION

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