

## SAFETY DATA SHEET

Version: v1

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

## 1.1 Product identifiers

Product name : Crotoxyphos  
Product Number : C299518  
Brand : aladdin  
CAS-No. : 7700-17-6(Methanol)

## 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 2), H225

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

Specific target organ toxicity - single exposure (Category 1), Eyes, Central nervous system, H370

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

## 2.2 GHS Label elements, including precautionary statements

Pictogram



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| Signal word                | Danger                                                                                                               |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Hazard statement(s)        |                                                                                                                      |
| H225                       | Highly Flammable liquid and vapor                                                                                    |
| H301                       | Toxic if swallowed                                                                                                   |
| H311                       | Toxic in contact with skin                                                                                           |
| H370                       | Causes damage to organs                                                                                              |
| H410                       | Very toxic to aquatic life with long lasting effects                                                                 |
| H301+H311+H331             | Toxic if swallowed, in contact with skin or if inhaled                                                               |
| Precautionary statement(s) |                                                                                                                      |
| P210                       | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                      |
| P240                       | Ground/bond container and receiving equipment.                                                                       |
| P241                       | Use explosion-proof [electrical/ventilating/lighting/.../] equipment.                                                |
| P242                       | 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.                                           |
| P391                       | Collect spillage.                                                                                                    |
| P302+P352                  | IF ON SKIN: wash with plenty of water.                                                                               |
| P303+P361+P353             | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].             |
| P308+P311                  | IF exposed or concerned: Call a POISON CENTER/doctor/...                                                             |
| P370+P378                  | In case of fire: Use ... to extinguish.                                                                              |
| P405                       | Store locked up.                                                                                                     |
| P403+P235                  | Store in a well-ventilated place. Keep cool.                                                                         |
| P501                       | Dispose of contents/container to an approved waste disposal plant.                                                   |
| P301+P310+P330             | IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER/doctor/.                                                 |
| P304+P340+P310             | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. |

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

|                  |                     |
|------------------|---------------------|
| Synonyms         | : no data available |
| Formula          | : C14H19O6P         |
| Molecular weight | : 314.27            |

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| Component           | Classification                                                                                                                                             | Concentration |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Methanol</b>     |                                                                                                                                                            |               |
| CAS-No. : 67-56-1   | Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370                                                                                        |               |
| EC-No. :            | Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371                                                                                |               |
| <b>Crotoxyphos</b>  |                                                                                                                                                            |               |
| CAS-No. : 7700-17-6 | Acute toxicity - Category 3, Oral Acute toxicity - Category 3, Dermal                                                                                      |               |
| EC-No. : 231-720-5  | Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1 Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1 |               |

## 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

no data available

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

Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

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Carbon oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

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## 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.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Store in a cool, ventilated warehouse. Store at -20°C.

### 7.3 Specific end use(s)

no data available

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## 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 EN 166(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

Do not let product enter drains.

## 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 |
| g) Flash point                                  | no data available |
| 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 |
| l) Vapour density                               | no data available |

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|                                           |                   |
|-------------------------------------------|-------------------|
| m) Relative density                       | no data available |
| n) Water solubility                       | no data available |
| o) Partition coefficient: n-octanol/water | no data available |
| p) Auto-ignition temperature              | no data available |
| q) Decomposition temperature              | no data available |
| r) Viscosity                              | no data available |
| s) Explosive properties N                 | no data available |
| 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

methanol Risk of explosion with: Oxidizing agents perchloric acid perchlorates salts of oxyhalogenic acids chromium(VI) oxide halogen oxides nitrogen oxides nonmetallic oxides chromosulfuric acid chlorates hydrides zinc diethyl halogens powdered magnesium hydrogen peroxide Nitric acid sulfuric acid permanganic acid sodium hypochlorite Exothermic reaction with: acid halides Acid anhydrides Reducing agents acids Bromine Chlorine Chloroform magnesium tetrachloromethane Risk of ignition or formation of inflammable gases or vapours with: Fluorine Oxides of phosphorus Raney-nickel Generates dangerous gases or fumes in contact with: Alkaline earth metals Alkali metals

### 10.4 Conditions to avoid

no data available

### 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  
methanol

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Acute toxicity estimate Oral - 100,1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Nausea, Vomiting

Acute toxicity estimate Inhalation - 4 h - 3,1 mg/l - vapor

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Irritation symptoms in the respiratory tract.

Acute toxicity estimate Dermal - 300,1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

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

methanol Causes damage to organs. - Eyes, Central nervous system Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

methanol

Acute effects:, Headache, Dizziness, Drowsiness, narcosis, Blindness, Impairment of vision, irritant effects, Nausea, Vomiting, agitation, spasms, inebriation, Coma

Drying-out effect resulting in rough and chapped skin.

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

Systemic effects:

acidosis

drop in blood pressure

agitation, spasms

inebriation

Dizziness

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Drowsiness  
Headache  
Impairment of vision  
Blindness  
narcosis  
Coma  
Symptoms may be delayed.  
Damage to:  
Liver  
Kidney  
Cardiac  
Irreversible damage of the optical nerve.  
Other dangerous properties can not be excluded.  
This substance should be handled with particular care.

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## SECTION 12: Ecological information

### 12.1 Toxicity

methanol  
Toxicity to fish flow-through test LC50 - *Lepomis macrochirus* (Bluegill) - 15.400,0  
mg/l - 96 h  
(US-EPA)  
Toxicity to daphnia  
and other aquatic  
invertebrates  
semi-static test EC50 - *Daphnia magna* (Water flea) - 18.260 mg/l -  
96 h  
(OECD Test Guideline 202)  
Toxicity to algae static test ErC50 - *Pseudokirchneriella subcapitata* (green algae) - ca.  
22.000,0 mg/l - 96 h  
(OECD Test Guideline 201)  
Toxicity to bacteria static test IC50 - activated sludge - > 1.000 mg/l - 3 h  
(OECD Test Guideline 209)  
Toxicity to  
fish(Chronic toxicity)  
NOEC - *Oryzias latipes* (Orange-red killifish) - 7.900 mg/l - 200 h  
Remarks: (External MSDS)

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

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## 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

no data available

## 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: 1230

Packing group: II

Class: 6.1

Proper shipping name:

Reportable Quantity(RQ): no data  
available

Poison Inhalation Hazard: no data  
available

Methanol(ORGANOPHOSPHORUS  
PESTICIDE, LIQUID, TOXIC)

Environmental Hazards: yes

IMDG

UN number: 1230

Packing group: II

EMS-No: no data available

Proper shipping name: Methanol(ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC)

IATA

UN number: 1230

Packing group: II

Class: 6.1

Proper shipping name: Methanol(ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC)

## SECTION 15: Regulatory information

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

## SECTION 16: Other information

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**Revision Summary**

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