

# 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 : Fenitrothion  
Product Number : F294872  
Brand : aladdin  
CAS-No. : 122-14-5

### 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 toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 1), H330

Acute toxicity, Dermal (Category 4), H312

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

**Pictogram**



**Signal word**

Warning

**Hazard statement(s)**

|      |                                                      |
|------|------------------------------------------------------|
| H301 | Toxic if swallowed                                   |
| H312 | Harmful in contact with skin                         |
| H330 | Fatal if inhaled                                     |
| H410 | Very toxic to aquatic life with long lasting effects |

**Precautionary statement(s)**

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| 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.                            |
| P273      | Avoid release to the environment.                                          |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284      | [In case of inadequate ventilation] Wear respiratory protection.           |
| P310      | Immediately call a POISON CENTER or doctor/physician.                      |
| P312      | Call a POISON CENTER or doctor/... if you feel unwell.                     |
| P330      | Rinse mouth.                                                               |
| P391      | Collect spillage.                                                          |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/...                  |
| P302+P352 | IF ON SKIN: wash with plenty of water.                                     |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| 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.         |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                                                                              |                                                            |
|------------------------------------------------------------------------------|------------------------------------------------------------|
| Synonyms                                                                     | : O,O-Dimethyl O-(3-methyl-4-nitrophenyl) phosphorothioate |
| Phosphorothioic acid O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester Nitrophos |                                                            |
| Formula                                                                      | : C <sub>9</sub> H <sub>12</sub> NO <sub>5</sub> PS        |
| Molecular weight                                                             | : 277.23                                                   |
| CAS No.                                                                      | : 122-14-5                                                 |
| EC-NO.                                                                       | : 204-524-2                                                |

| Component    | Classification | Concentration |
|--------------|----------------|---------------|
| Fenitrothion |                |               |

| Component | Classification                                                                                                                           | Concentration       |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|           | Acute Tox. 3; Acute Tox. 1; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; H301, H330, H312, H400, H410 M-Factor - Aquatic Acute: 100 | analytical standard |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 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

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

#### Unsuitable extinguishing media

no data available

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

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Oxides of phosphorus Combustible.

### 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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

## 6.2 Environmental precautions

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

## 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 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

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature 2 - 8 °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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### 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, 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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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**

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

## 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      | 140-145°C         |
| g) Flash point                                  | >100°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 |
| l) Vapour density                               | no data available |
| 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

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Strong oxidizing agents Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Oxides of phosphorus Other decomposition products In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 250 mg/kg

Remarks: (RTECS)

LC50 Inhalation - Rat - 4 h - 0,378 mg/l

Remarks: Behavioral:Tremor. Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration:Dyspnea. (RTECS)

LD50 Dermal - Rabbit - 1.250 mg/kg

Remarks: (RTECS)

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

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no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**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**

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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0,01 mg/l - 48 h

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 72 h - 20 µg/l(Fenitrothion) Bioconcentration factor (BCF): 250

### 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

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## SECTION 13:

### 13.1 Disposal considerations

Product

ALADDIN SCIENTIFIC CORPORATION  
 14078 Meridian Parkway, Riverside, CA. 92518

Offer surplus and non-recyclable solutions to a licensed disposal company  
**Contaminated packaging**  
 Dispose of as unused product.

**SECTION 14: Transport information**

|                                                                    |                                            |                                             |
|--------------------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| <b>DOT (US)</b>                                                    |                                            |                                             |
| UN number: 2810                                                    | Packing group: III                         | Class: 6.1                                  |
| Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Fenitrothion) | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: No                                          |                                            |                                             |
| <b>IMDG</b>                                                        |                                            |                                             |
| UN number: 2810                                                    | Packing group: III                         | EMS-No: no data available                   |
| Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Fenitrothion) |                                            |                                             |
| <b>IATA</b>                                                        |                                            |                                             |
| UN number: 2810                                                    | Packing group: III                         | Class: 6.1                                  |
| Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Fenitrothion) |                                            |                                             |

**SECTION 15: Regulatory information**

**SECTION 16: Other information**

|                         |                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
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