



# Safety Data Sheet

SDS No.:  
SDS-P/EC-S/08

Sumithion 50 EC

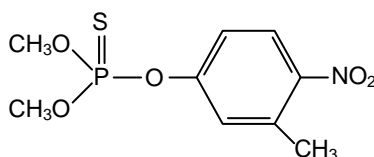
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## Section 1: Identification of the Hazardous Chemical and of the Supplier

### 1.1 Product Identifier

Product Name: Fenitrothion 50% EC  
Trade Name: Sumithion 50 EC  
Active Ingredient: O,O-Dimethyl-O-(3-methyl-4-nitrophenyl) phosphorothioate  
CAS No.(AI): 122-14-5  
Structural Formula:



Recommended Usage: Insecticide

### 1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.  
962, Lorong Perusahaan 8  
Taman Perindustrian Perai  
13600 Perai , Pulau Pinang  
Malaysia  
Tel.: +6-04-3907988  
Fax: +6-04-3905703  
Web: [www.agrichem.com.my](http://www.agrichem.com.my)  
Emergency Phone: +6-04-3907988

## Section 2: Hazard Identification

Classification: Flammable Liquids, category 3  
Acute (Oral) Toxicity, category 4  
Acute (Dermal) Toxicity, category 4  
Acute (Inhalation) Toxicity, category 2  
Skin Irritation, category 2  
Eye Irritation, category 2  
Carcinogenicity, category 2  
Specific Target Organ Toxicity-Single Exposure, category 3  
Aspiration Hazard, category 1  
Hazardous to the Aquatic Environment-Acute Hazard, category 1  
Hazardous to the Aquatic Environment-Chronic Hazard, category 1

Pictogram:





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Signal Word: Danger

Hazard Statement:

|             |  |
|-------------|--|
| H226        | Flammable liquid and vapour                          |
| H302 + H312 | Harmful if swallowed or in contact with skin         |
| H304        | May be fatal if swallowed and enters airways         |
| H330        | Fatal if inhaled                                     |
| H315        | Causes skin irritation                               |
| H319        | Causes serious eye irritation                        |
| H351        | Suspected of causing cancer                          |
| H335        | May cause respiratory irritation                     |
| H400        | Very toxic to aquatic life                           |
| H410        | Very toxic to aquatic life with long lasting effects |

Precautionary Statement:

|      |  |
|------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces - No smoking.          |
| P243 | Take precautionary measures against static discharge.                      |
| P260 | Do not breathe mist/vapours.   |
| P270 | Do not eat, drink, or smoke when using this product.                       |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell.               |

## Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

| Component              | CAS No.   | Weight, % | Hazard Code                              |
|------------------------|-----------|-----------|--|
| Fenitrothion Technical | 122-14-5  | 50        | H301, H312, H330, H400, H410             |
| Surfactant             | -         | <10       | H351                                     |
| Xylene                 | 1330-20-7 | Balance   | H226, H312, H315, H319, H332, H335, H304 |

## Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

|               |   |
|---------------|---|
| Inhalation:   | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  |
| Skin Contact: | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. |
| Eye Contact:  | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye   |



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Ingestion: irritation persists: Get medical advice/attention.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms: No data available.

Notes to Physician: No data available.

## Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), dry chemical.

Specific Hazard During Fire: No data available.

Special Protective Equipment: Fire fighters should wear full-faced self contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

Personal Precautions: Wear protective gloves/protective clothing/eye protection/face protection.

Environmental Precautions: Avoid release to the environment.

Method for Cleaning Up: Evacuate non essential personnel. Eliminate ignition source. Ventilate area. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and a small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

## Section 7: Handling and Storage

Precautions for Safe Handling: Wear protective gloves/protective clothing/eye protection/face protection. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing mist or vapours. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Conditions for Safe Storage: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Incompatibles: No data available.

## Section 8: Exposure Control and Personal Protection

Exposure Limit:

| Source | Component | CAS No.   | Limit |                                |
|--------|-----------|-----------|-------|--------------------------------|
| ACGIH  | Xylene    | 1330-20-7 | TWA   | 100ppm (434mg/m <sup>3</sup> ) |
|        |           |           | STEL  | 150ppm (651mg/m <sup>3</sup> ) |



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|                         |   |   |     |                             |
|-------------------------|---|---|-----|-----------------------------|
| JSOH (2013)             | Surfactant<br>(As 1,2,4-Trimethylbenzene) | - | OEL | 25ppm, 120mg/m <sup>3</sup> |
| ACGIH (2005)<br>TLV-TWA | Surfactant<br>(As Trimethylbenzene)       | - | TWA | 25ppm                       |

Engineering Control: Local exhaust ventilation.  
Individual Protection Measure: Wash hands thoroughly after handling. Do not breathe mist or vapours. Use personal protective equipment as required.  
Personal Protective Equipment:  
Eye Protection: Wear eye protection, goggles.  
Skin Protection: Wear protective gloves and protective clothing.  
Respiratory Protection: Wear face protection, pesticide respiratory masks.

## Section 9: Physical and Chemical Properties

Appearance: Yellowish liquid  
Odour: Characteristic odour  
Odour Threshold: No data available  
pH: 3 – 7 (10% Emulsion)  
Melting/Freezing Point: No data available  
Initial Boiling Point: 118°C at 0.07 hPa (Fenitrothion Technical)  
Boiling Range: No data available  
Flash Point: 33°C  
Evaporation Rate: No data available  
Flammability: No data available  
Upper Flammability Limit: No data available  
Lower Flammability Limit: No data available  
Vapour Pressure: No data available  
Vapour Density: No data available  
Relative Density: No data available  
Solubility in Water: Miscible with water  
Partition Coefficient P<sub>o/w</sub>: 3.3 (Fenitrothion Technical)  
Auto-ignition Temperature: No data available  
Decomposition Temperature: No data available  
Viscosity: No data available

## Section 10: Stability and Reactivity

Reactivity: No data available.  
Chemical Stability: Stable under normal conditions.  
Hazardous Reaction: No data available.  
Condition to Avoid: Direct sunlight, heat and extreme temperature.  
Incompatible Material: No data available.  
Hazardous Decomposition Product: No data available.



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## Section 11: Toxicological Information

### 11.1 Acute Toxicity

|   |          |                       |
|---|----------|-----------------------|
| Component: Fenitrothion Technical       |          |                       |
| Oral LD <sub>50</sub> :                 |          |                       |
|   | Rat      | 250 mg/kg             |
| Dermal LD <sub>50</sub> :               |          |                       |
|   | Rabbit   | 1250 mg/kg            |
| Inhalation, LC <sub>50</sub> :          |          |                       |
|   | Rat (4h) | 378 mg/m <sup>3</sup> |
| Component: Xylene                       |          |                       |
| Ingestion, Oral LD <sub>50</sub> :      |          | > 2000 - ≤ 5000mg/kg  |
| Skin Contact, Dermal LD <sub>50</sub> : |          | > 1000 - ≤ 2000mg/kg  |
| Inhalation, LC <sub>50</sub> :          |          | >10.0 - ≤ 20.0mg/L    |

### 11.2 Chronic Effect from Short and Long Term Exposure

|                  |   |
|------------------|---|
| Skin Contact:    | Causes skin irritation.                       |
| Eye Contact:     | Causes serious eye irritation.                |
| Inhalation:      | May cause respiratory irritation.             |
| Ingestion:       | May be fatal if swallowed and enters airways. |
| Carcinogenicity: | Suspected of causing cancer.                  |
| Mutagenicity:    | No data available.                            |
| Teratogenicity:  | No data available.                            |

### 11.3 Symptoms

No data available.

## Section 12: Ecological Information

### Ecotoxicity:

|  |  |                |
|--|--|----------------|
| Component: Fenitrothion Technical                    |  |                |
| Toxicity to fish:                                    |  |                |
|  | <i>Carassius auratus</i> (goldfish), LC <sub>50</sub> (96h)        | 2.8 mg/l       |
|  | <i>Oncorhynchus mykiss</i> (rainbow trout), LC <sub>50</sub> (96h) | 1 - 2 mg/l     |
| Toxicity to daphnia and other aquatic invertebrates: |  |                |
|  | <i>Daphnia magna</i> (water flea), EC <sub>50</sub> (48h)          | 0.01 mg/l      |
| Component: Xylene                                    |  |                |
| Acute Aquatic Toxicity LL/EL/IL <sub>50</sub> :      |  |                |
|  | Fish   | > 1 - ≤ 10mg/L |
|  | Aquatic crustacea  | > 1 - ≤ 10mg/L |



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|  |                              |                |  |
|--|------------------------------|----------------|--|
|  | Algae/aquatic plants         | > 1 - ≤ 10mg/L |  |
|  | Microorganisms               | > 100mg/L      |  |
|  | Chronic Toxicity, NOEC/NOEL: |                |  |
|  | Fish, 56 days                | > 1mg/L        |  |
|  | Aquatic crustacea, 21 days   | > 1mg/L        |  |

Persistence and Degradability: No data available.

Bioaccumulative Potential: Fenitrothion Technical  
*Oncorhynchus mykiss* (rainbow trout)-72h : 20 µg/l  
Bioconcentration factor (BCF): 250

Mobility in Soil: No data available.

Other Adverse Effect: No data available.

## Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam or in accordance to local regulation.

## Section 14: Transportation Information

| Land (ADR/RID)          |   |
|-------------------------|---|
| Proper Shipping Name    | Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C |
| Hazard Class            | 6.1   |
| Hazchem Code            | -   |
| UN number               | 2903  |
| Packing Group           | III   |
| Label/Mark              | 6(3)  |
| Sea (IMDG)              |   |
| Proper Shipping Name    | Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C |
| Hazard Class            | 6.1   |
| UN Number               | 2903  |
| Packing Group           | III   |
| Marine Pollutant        | -   |
| Label                   | 6(3)  |
| Transport Document Name | -   |
| Air (IATA)              |   |
| Proper Shipping Name    | Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C |
| Hazard Class            | 6.1   |
| UN number               | 2903  |

|   |                          |                                    |
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|                         |      |
|-------------------------|------|
| Packing Group           | III  |
| Label/Mark              | 6(3) |
| Transport Document Name | -    |

### Section 15: Regulatory Information

Classification:

- Flammable Liquids, category 3
- Acute (Oral) Toxicity, category 4
- Acute (Dermal) Toxicity, category 4
- Acute (Inhalation) Toxicity, category 2
- Skin Irritation, category 2
- Eye Irritation, category 2
- Carcinogenicity, category 2
- Specific Target Organ Toxicity-Single Exposure, category 3
- Aspiration Hazard, category 1
- Hazardous to the Aquatic Environment-Acute Hazard, category 1
- Hazardous to the Aquatic Environment-Chronic Hazard, category 1

Signal Word: Danger

Pictogram:



Pesticides Act: Class II  
Classification: Poisonous

### Section 16: Other Information

Date of Preparation: 18 November 2015  
Date of Revision: -  
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014  
GHS Purple Book

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.