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

1.1 Product Identifier
Product Name: Fenitrothion 40% WP
Trade Name: Sumithion 40 WP
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
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification:
Acute (Oral) Toxicity, category 4
Acute (Inhalation) Toxicity, category 3
Eye Irritation, category 2
Hazardous to the Aquatic Environment-Acute Hazard, category 1
Hazardous to the Aquatic Environment-Chronic Hazard, category 1

Pictogram:

Signal Word: Danger
Hazard Statement:
- H302 Harmful if swallowed
- H331 Toxic if inhaled
- H319 Causes serious eye irritation
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement:
- P260 Do not breathe mist/vapours.
- P270 Do not eat, drink, or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P311 Call a POISON CENTER or doctor/physician.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight, %</th>
<th>Hazard Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fenitrothion</td>
<td>122-14-5</td>
<td>40</td>
<td>H301, H312, H330, H400, H410</td>
</tr>
<tr>
<td>Surfactant</td>
<td>-</td>
<td>&lt;5</td>
<td>H302, H315, H318</td>
</tr>
<tr>
<td>Carrier 1</td>
<td>-</td>
<td>&lt;50</td>
<td>H319</td>
</tr>
<tr>
<td>Carrier 2</td>
<td>-</td>
<td>&lt;30</td>
<td>H319</td>
</tr>
</tbody>
</table>

### 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: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

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 irritation persists: Get medical advice/attention.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Symptoms: No data available.

Notes to Physician: No data available.
Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), 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. 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 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 container tightly closed.
Incompatibles: Alkaline material.

Section 8: Exposure Control and Personal Protection

Exposure Limit:

<table>
<thead>
<tr>
<th>Source</th>
<th>Component</th>
<th>CAS No.</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA TWA</td>
<td>Carrier 1 (Silicon Dioxide, amorphous silica)</td>
<td>-</td>
<td>TWA 10mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL 6mg/m³ (&lt;1%)</td>
</tr>
<tr>
<td>ACGIH TWA</td>
<td></td>
<td></td>
<td>STEL 10mg/m³ (&lt;1%)</td>
</tr>
<tr>
<td>NIOSH TWA</td>
<td></td>
<td></td>
<td>STEL 6mg/m³ (10 hours)</td>
</tr>
</tbody>
</table>
**Section 9: Physical and Chemical Properties**

- **Appearance:** Off white wettable powder
- **Odour:** Characteristic odour
- **Odour Threshold:** No data available
- **pH:** No data available
- **Melting/Freezing Point:** 1600°C (Carrier 1)
- **Initial Boiling Point:**
  - 118°C at 0.07 hPa (Fenitrothion Technical)
  - 2230°C (Carrier 1)
- **Boiling Range:** No data available
- **Flash Point:** Not applicable
- **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:** Dispersible in water
- **Partition Coefficient P<sub>ow</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.
Section 11: Toxicological Information

11.1 Acute Toxicity
Component: Fenithrothion Technical

<table>
<thead>
<tr>
<th></th>
<th>Oral LD₅₀:</th>
<th>Dermal LD₅₀:</th>
<th>Inhalation, LC₅₀:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>250 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabbit</td>
<td></td>
<td>1250 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Rat (4h)</td>
<td></td>
<td>378 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Component: Surfactant
Oral LD₅₀: 1400 mg/kg

11.2 Chronic Effect from Short and Long Term Exposure
Skin Contact: Not classified as hazardous.
Eye Contact: Causes serious eye irritation.
Inhalation: Toxic if inhaled.
Ingestion: Harmful if swallowed.
Carcinogenicity: No data available.
Mutagenicity: No data available.
Teratogenicity: No data available.

11.3 Symptoms
No data available.

Section 12: Ecological Information

Ecotoxicity:
Component: Fenithrothion Technical

<table>
<thead>
<tr>
<th>Toxicity to fish:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Carassius auratus (goldfish), LC₅₀ (96h)</td>
<td>2.8 mg/l</td>
</tr>
<tr>
<td>Oncorhynchus mykiss (rainbow trout), LC₅₀ (96h)</td>
<td>1 - 2 mg/l</td>
</tr>
</tbody>
</table>

Toxicity to daphnia and other aquatic invertebrates:
Daphnia magna (water flea), EC₅₀ (48h) 0.01 mg/l

Persistence and Degradability: No data available.
Bioaccumulative Potential: Fenithrothion 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

<table>
<thead>
<tr>
<th>Land (ADR/RID)</th>
<th></th>
<th>Transport Document Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Pesticide, Solid, Toxic, N.O.S.</td>
<td>-</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>6.1</td>
<td>-</td>
</tr>
<tr>
<td>Hazchem Code</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>UN number</td>
<td>2588</td>
<td>-</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
<td>-</td>
</tr>
<tr>
<td>Label / Mark</td>
<td>6</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sea (IMDG)</th>
<th></th>
<th>Transport Document Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Pesticide, Solid, Toxic, N.O.S.</td>
<td>-</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>6.1</td>
<td>-</td>
</tr>
<tr>
<td>UN Number</td>
<td>2588</td>
<td>-</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
<td>-</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Label</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Transport Document Name</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Air (IATA)</th>
<th></th>
<th>Transport Document Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Pesticide, Solid, Toxic, N.O.S.</td>
<td>-</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>6.1</td>
<td>-</td>
</tr>
<tr>
<td>UN number</td>
<td>2588</td>
<td>-</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
<td>-</td>
</tr>
<tr>
<td>Label / Mark</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Transport Document Name</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Section 15: Regulatory Information

Classification:
Acute (Oral) Toxicity, category 4
Acute (Inhalation) Toxicity, category 3
Eye Irritation, category 2
Hazardous to the Aquatic Environment-Acute Hazard, category 1
Hazardous to the Aquatic Environment-Chronic Hazard, category 1

Signal Word: Danger

Pictogram:

![Pictogram](image)

Pesticides Act: Class III
Classification: Harmful

**Section 16: Other Information**

Date of Preparation: 3 December 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.