



Safety Data Sheet

SDS No.:
SDS-P/WP-S/02

Sumithion 40 WP

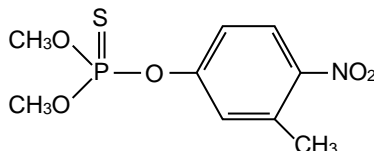
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Section 1: Identification of the Hazardous Chemical and of the Supplier

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 Toxicity (Oral), category 4
Specific Target Organ Toxicity - Single Exposure,
category 1 (Nervous System)
Specific Target Organ Toxicity - Repeated Exposure,
category 1 (Nervous System)
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



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H370	Causes damage to nervous system
H372	Causes damage to nervous system through prolonged or repeat exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statement:

Prevention:

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash exposed body parts thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.

Response:

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.

Storage:

P405	Store locked up.
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Disposal:

P501	Dispose of contents/container appropriately in accordance with local/regional/national/ international regulations.
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Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Fenitrothion Technical	122-14-5	40	H302, H311, H370, H372, H400, H410
Surfactant	-	1 to <3	H228, H302, H332, H315, H318, H335, H412

Section 4: First-aid Measures

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

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin Contact:	Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
Eye Contact:	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.



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

Symptoms: No data available.

Notes to Physician: For Fenitrothion Technical: Atropine sulfate or pralidoxime iodide (PAM) is recommended to acute poisoning, as treatment strategy.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), dry chemical powder.

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. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material such as clay or earth. Collect into the same container for disposal. 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. Do not breathe dust/fume/gas/mist/vapours/spray. 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: No data available.

Engineering Control: Local exhaust ventilation.

Individual Protection Measure: Wash exposed body parts thoroughly after handling. Use personal protective equipment as required.



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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: Off white wettable powder
Odour: Characteristic odour
Odour Threshold: No data available
pH: No data available
Melting/Freezing Point: -1 to +1°C (PAI) (Fenitrothion Technical)
Initial Boiling Point: No data available
Boiling Range: 140 - 145°C (13.3 Pa) (Fenitrothion Technical)
Flash Point: 157°C (Pensky-Martens closed cup) (Fenitrothion Technical)
Evaporation Rate: No data available
Flammability: No data available
Upper Flammability Limit: No data available
Lower Flammability Limit: No data available
Vapour Pressure: 0.00157 Pa (25°C) (Fenitrothion Technical)
Vapour Density: No data available
Relative Density: No data available
Solubility in Water: Dispersible in water
Partition Coefficient $P_{o/w}$: 3.43 (20°C) (Fenitrothion Technical)
Auto-ignition Temperature: 299 ± 5°C (Fenitrothion Technical)
Decomposition Temperature: No data available
Viscosity: Not applicable

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: Alkaline material.
Hazardous Decomposition Product: No data available.

Section 11: Toxicological Information

If the data of this product are not available, the data of ingredients is displayed.

Component: Fenitrothion Technical

Acute Toxicity:
Oral, LD₅₀: 330 mg/kg (Rat)



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Dermal, LD ₅₀ :	890 mg/kg (Rat)
Inhalation, LC ₅₀ (dust/mist):	>2.210 mg/L (Rat) (4h)
Skin Corrosion/Irritation:	Rabbit (skin irritation/corrosion test): not irritating
Serious Eye Damage/Eye Irritation:	Rabbit (eye irritation/corrosion test): mildly irritating
Respiratory Sensitizer/Skin Sensitizer:	Guinea pig skin sensitizer (Buehler test): non-sensitizer
Germ Cell Mutagenicity:	
in vitro:	Ames test (S.typhimurium and E. coli): negative Chromosome aberration test (chinese hamster cell): negative Gene mutation test (chinese hamster cell): negative
in vivo:	Micronucleus test (mouse, oral, bone marrow): negative Dominant lethal test (rodents): negative
Carcinogenicity:	Rat carcinogenicity study (diet): non-carcinogenic Mouse carcinogenicity study (diet): non-carcinogenic
Reproductive Toxicity:	
Teratogenicity:	Rat teratology study (oral): non-teratogenic Rabbit teratology study (oral): non-teratogenic
Reproduction:	Rat two-generation reproductive toxicity study (diet): No effect on reproduction
Specific Target Organ Toxicity – Single Exposure:	Rat acute toxicity study (oral): nervous system
Specific Target Organ Toxicity – Repeated Exposure:	Rat 6-month subchronic toxicity study (diet): nervous system Rat 90-day repeated dose toxicity study (diet): nervous system Rabbit 21-day repeated dose toxicity study (dermal): nervous system

Component: Surfactant

Acute Toxicity:	
Oral, LD ₅₀ :	1400 mg/kg (Rat)
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage/Eye Irritation:	Causes serious eye damage
Respiratory Sensitizer/Skin Sensitizer:	Not classified
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity – Single Exposure:	May cause respiratory irritation
Specific Target Organ Toxicity – Repeated Exposure:	Not classified
Aspiration Hazard:	Not classified

Symptoms: No data available



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Section 12: Ecological Information

If the data of this product are not available, the data of ingredients is displayed.

Ecotoxicity:

Component: Fenitrothion Technical

Acute Toxicity:

Fish, LC₅₀ (96h):

Common Carp: 3.55 mg/l

Rainbow Trout: 1.3 mg/l

Bluegill Sunfish: 2.5 mg/l

Crustacea, *Daphnia magna*, EC₅₀ (48h): 0.0045 mg/l

Alga, green alga, EC₅₀ (0-72h): 2.73 mg/l

Chronic Toxicity:

Fish, Rainbow Trout, NOEC: 0.088 mg/l

Crustacea, *Daphnia magna*, NOEC: 0.087 µg/l

Alga, green alga, NOECr (0-72h): 0.78 mg/l

Persistence and Degradability:

No data available

Bioaccumulative Potential:

BCF: 29 (Fenitrothion Technical)

Mobility in Soil:

No data available

Other Adverse Effect:

No data available

Section 13: Disposal Information

Dispose of contents/container appropriately in accordance with local/regional/national/ international regulations.

Section 14: Transportation Information

Land (ADR/RID)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
Hazchem Code	-
UN number	2588
Packing Group	III
Label / Mark	6

Sea (IMDG)

Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN Number	2588
Packing Group	III
Marine Pollutant	-



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Label	6
Transport Document Name	-
Air (IATA)	
Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN number	2588
Packing Group	III
Label / Mark	6
Transport Document Name	-

Section 15: Regulatory Information

Classification: Acute Toxicity (Oral), category 4
Specific Target Organ Toxicity - Single Exposure,
category 1 (Nervous System)
Specific Target Organ Toxicity - Repeated Exposure,
category 1 (Nervous System)
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 III
Classification: Harmful

Section 16: Other Information

Date of Preparation: 3 December 2015
Date of Revision: 28 April 2020
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.