



Safety Data Sheet

SDS No.:
SDS-P/L-S/03

Sumithion L-40

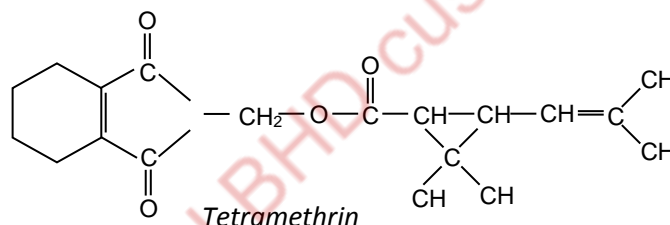
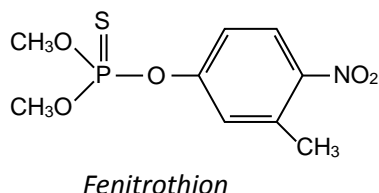
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Fenitrothion 40% + Tetramethrin 1% ULV Liquid
Trade Name: Sumithion L-40
Active Ingredient: (1) O,O-dimethyl O-(3-methyl-4-nitrophenyl) phosphorothioate (Fenitrothion)
(2) 3,4,5,6-tetrahydrophthalimidomethyl (1RS)-cis,trans-chrysanthemate (Tetramethrin)
CAS No.(AI): (1) 122-14-5
(2) 7696-12-0

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
Acute Toxicity (Dermal), category 4
Carcinogenicity, category 2
Specific Target Organ Toxicity - Single Exposure, category 1 (Nervous System)
Specific Target Organ Toxicity - Single Exposure, category 3 (Central Nervous System)
Specific Target Organ Toxicity - Repeated Exposure, category 1 (Nervous System)
Aspiration Hazard, category 1
Hazardous to the Aquatic Environment-Acute Hazard, category 1
Hazardous to the Aquatic Environment-Chronic Hazard, category 1

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Pictogram:



Signal Word: Danger

Hazard Statement:

H302 + H312	Harmful if swallowed or in contact with skin
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H370	Cause damage to nervous system
H372	Causes damage to nervous system through prolonged or repeat exposure
H304	May be fatal if swallowed and enters airways
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statement:

Prevention:

P260	Do not breathe mist/vapours.
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.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/physician.
P391	Collect spillage.

Storage:

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

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
Tetramethrin Technical	7696-12-0	1	H400, H410
Solvent	-	>50	H304, H336, H351, H411



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Section 4: First-aid Measures

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. 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 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:	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 (CO ₂), chemical foam, dry chemical powder, water spray.
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,
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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: No data available.

Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
ACGIH	Solvent (contains 1,2,4-Trimethyl Benzene)	-	TWA	25 ppm
Malaysia PEL	Solvent	-	PEL	52 mg/m ³ (10 ppm)
ACGIH	(contains Naphthalene)	-	TWA	10 ppm (Skin)

Engineering Control: Local exhaust ventilation.

Individual Protection Measure: Wash hands thoroughly after handling. Avoid breathing 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: Light brownish liquid

Odour: Characteristic odour

Odour Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Initial Boiling Point: No data available

Boiling Range: 140 - 145°C (13.3 Pa) (Fenitrothion Technical)

181 - 211°C (Solvent)

Flash Point: 77°C

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)

0.1 kPa (0.75 mmHg) (20°C) (Solvent)

Vapour Density: 4.6 (101 kPa) (Solvent)

Relative Density: No data available

Solubility in Water: Not miscible with water

Partition Coefficient P_{o/w}: 3.43 (20°C) (Fenitrothion Technical)

Auto-ignition Temperature: 299 ± 5°C (Fenitrothion Technical)

448°C (Solvent)



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Decomposition Temperature: Approximately 210°C (Fenitrothion Technical)
Viscosity: No data available

Section 10: Stability and Reactivity

Reactivity: No data available.
Chemical Stability: Stable for at least 3 years under normal warehouse 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.

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Fenitrothion Technical		
Oral LD ₅₀ :		
	Rat	330 mg/kg
Dermal LD ₅₀ :		
	Rat	890 mg/kg
Inhalation, Dust/Mist, LC ₅₀ :		
	Rat (4h)	>2.210 mg/L
Component: Tetramethrin Technical		
Oral LD ₅₀ :		
	Rat	>5000 mg/kg
Dermal LD ₅₀ :		
	Rat	>5000 mg/kg
Inhalation, LC ₅₀ :		
	Rat (3h)	1180 mg/m ³

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:
Fenitrothion Technical: Rabbit (skin irritation/corrosion test): not irritating
Tetramethrin Technical: Rabbit: Not irritating
Solvent: May dry the skin leading to discomfort and dermatitis
Eye Contact:
Fenitrothion Technical: Rabbit (eye irritation/corrosion test): mildly irritating
Tetramethrin Technical: Rabbit: Not irritating
Solvent: May cause mild, short-lasting discomfort to eyes.
Inhalation: No data available.



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Ingestion:	Harmful if swallowed.	
Carcinogenicity:	Suspected of causing cancer.	
Solvent:	Caused cancer in laboratory animals, but the relevance to humans is uncertain.	
Germ Cell Mutagenicity:		
Fenitrothion Technical:		
In vitro:	Ames test (<i>S. typhimurium</i> and <i>E. coli</i>):	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
Solvent:	Not expected to be a germ cell mutagen.	
Reproductive Toxicity:		
Fenitrothion Technical:		
Teratogenicity:	Rat teratology study (oral):	Non-teratogenic
	Rabbit teratology study (oral):	Non-teratogenic
Reproduction:	Rat two-generation reproductive study (diet):	No effect on Reproduction
Solvent:	Not expected to be a reproductive toxicant.	
Specific Target Organ Toxicity		
- Single Exposure:		
Fenitrothion Technical:	Rat acute toxicity study (oral): Nervous system	
Specific Target Organ Toxicity		
- Repeated Exposure:		
Fenitrothion Technical:	Rat 6-month subchronic toxicity study (diet):	Nervous system
	Rat 90-day repeated dose toxicity study (diet):	Nervous system
	Rabbit repeated dose toxicity study (dermal):	Nervous system

11.3 Symptoms No data available.

Section 12: Ecological Information

Ecotoxicity:

Component: Fenitrothion Technical

Acute toxicity:		
Fish:	Common Carp, LC ₅₀ (96h)	3.55 mg/L
	Rainbow Trout, LC ₅₀ (96h)	1.3 mg/L
	Bluegill Sunfish, LC ₅₀ (96h)	2.5 mg/L
Crustacea:	<i>Daphnia magna</i> , EC ₅₀ (48h)	0.0045 mg/L
Alga:	Green alga, ErC ₅₀ (0-72h)	2.73 mg/L
Chronic toxicity:		
Fish:	Rainbow Trout, NOEC	0.088 mg/L
Crustacea:	<i>Daphnia magna</i> , NOEC	0.087 mg/L
Alga:	Green alga, NOECr	0.78 mg/L



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Component: Tetramethrin Technical

Acute toxicity - fish:	
Rainbow Trout, LC ₅₀ (96h)	0.037 mg/L
Acute toxicity - aquatic invertebrates:	
<i>Daphnia magna</i> , EC ₅₀ (48h)	0.11 mg/L

Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available.
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, 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
Packing Group	III
Label/Mark	6(3)

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Transport Document Name	-
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Section 15: Regulatory Information

Classification:

- Acute Toxicity (Oral), category 4
- Acute Toxicity (Dermal), category 4
- Carcinogenicity, category 2
- Specific Target Organ Toxicity - Single Exposure, category 1 (Nervous System)
- Specific Target Organ Toxicity - Single Exposure, category 3 (Central Nervous System)
- Specific Target Organ Toxicity - Repeated Exposure, category 1 (Nervous System)
- 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: 2 October 2019
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.