



Safety Data Sheet

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

Sumithion L-40

Revision: 0, 1st Issue

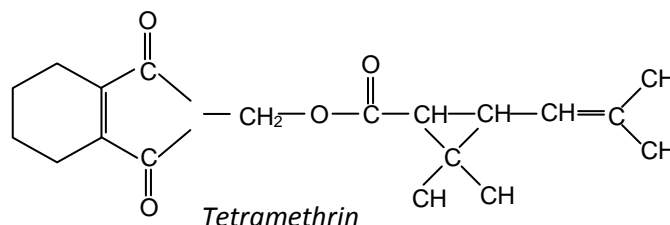
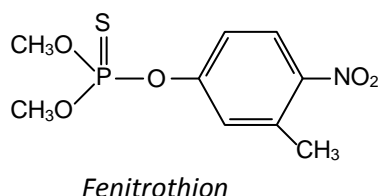
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Section 1: Identification of the Hazardous Chemical and of the Supplier

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 (Oral) Toxicity, category 4
Acute (Inhalation) Toxicity, category 2
Skin Irritation, category 2
Eye Irritation, category 2
Specific Target Organ Toxicity-Single Exposure, category 3
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	Harmful if swallowed
H330	Fatal if inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P260	Do not breathe gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P312	Call a POISON CENTER or doctor/physician if you fell unwell.

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

Component	CAS No.	Weight, %	Hazard Code
Fenitrothion Technical	122-14-5	40	H301, H312, H330, H400, H410
Tetramethrin Technical	7696-12-0	1	H400, H410
Solvent	-	>50	H315, H319, H332, H335

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.



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Symptoms: No data available.
Notes to Physician: No data available.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), chemical foam, dry chemical, water spray (mist).
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: No data available.

Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit
ACGIH	Solvent (contains Trimethyl Benzene)	-	25 ppm (123 mg/m ³)

Engineering Control: Local exhaust ventilation.



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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: 60 - 80°C (Tetramethrin Technical)
<-20°C (Solvent)
Initial Boiling Point: 118°C at 0.07 hPa (Fenitrothion Technical)
455°C at 1.013 hPa (Tetramethrin Technical)
Boiling Range: 178 - 209°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: 0.1 kPa at 20°C (Solvent)
0.3 kPa at 38°C (Solvent)
0.6 kPa at 50°C (Solvent)
Vapour Density: >1.00 (101.3 kPa/air=1) (Solvent)
Relative Density: No data available
Solubility in Water: Not miscible with water
Partition Coefficient $P_{o/w}$: 3.3 (Fenitrothion Technical)
Auto-ignition Temperature: >450°C (Solvent)
Decomposition Temperature: No data available
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.



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Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Fenitrothion Technical			
Oral LD ₅₀ :			
	Rat	250 mg/kg	
Dermal LD ₅₀ :			
	Rabbit	1250 mg/kg	
Inhalation, LC ₅₀ :			
	Rat (4h)	378 mg/m ³	

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:	Harmful if swallowed.
Carcinogenicity:	No data available.
Mutagenicity:	No data available.
Teratogenicity:	No data available.

11.3 Symptoms

Tetramethrin Technical:	Exposure can cause numbness, tingling, and weakness in extremities. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
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Section 12: Ecological Information

Ecotoxicity:

Component: Fenitrothion Technical			
Toxicity to fish:			
	<i>Carassius auratus</i> (goldfish), LC ₅₀ (96h)	2.8 mg/l	
	<i>Oncorhynchus mykiss</i> (rainbow trout), LC ₅₀ (96h)	1 - 2 mg/l	
Toxicity to daphnia and other aquatic invertebrates:			
	<i>Daphnia magna</i> (water flea), EC ₅₀ (48h)	0.01 mg/l	
Component: Tetramethrin Technical			
Toxicity to fish:			
	<i>Oncorhynchus mykiss</i> (rainbow trout), flow-through test LC ₅₀ (96h)	6.4 µg/l	
Toxicity to daphnia and other aquatic invertebrates:			
	<i>Daphnia magna</i> (water flea), flow-through test EC ₅₀ (48h)	49 µg/l	



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Persistence and Degradability: Tetramethrin Technical
Biodegradability: Biotic / Aerobic – Exposure time 28 d
Result: 2% - Not readily biodegradable

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

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Section 15: Regulatory Information

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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.