



Safety Data Sheet

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

Sumithion 50 EC

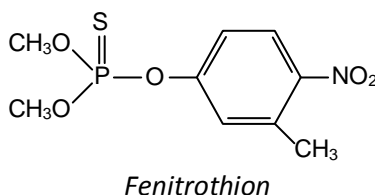
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Section 1: Identification of the Hazardous Chemical and of the Supplier

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
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

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Pictogram:



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



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Skin Contact:	position comfortable for breathing. 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 irritation persists: Get medical advice/attention.
Ingestion:	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 ₂), 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.



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Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
ACGIH	Xylene	1330-20-7	TWA	100ppm (434mg/m ³)
			STEL	150ppm (651mg/m ³)
JSOH (2013)	Surfactant (As 1,2,4-Trimethylbenzene)	-	OEL	25ppm, 120mg/m ³
ACGIH (2005) TLV-TWA	Surfactant (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_{o/w}: 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.



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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.

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
Component: Xylene		
Ingestion, Oral LD ₅₀ :		> 2000 - ≤ 5000mg/kg
Skin Contact, Dermal LD ₅₀ :		> 1000 - ≤ 2000mg/kg
Inhalation, LC ₅₀ :		>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 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



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Component: Xylene		
Acute Aquatic Toxicity LL/EL/IL ₅₀ :		
Fish	> 1 - ≤ 10mg/L	
Aquatic crustacea	> 1 - ≤ 10mg/L	
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	-



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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	-

Section 15: Regulatory Information

Classification: Flammable Liquids, category 3
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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.