



Safety Data Sheet

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

Sumithion L-40

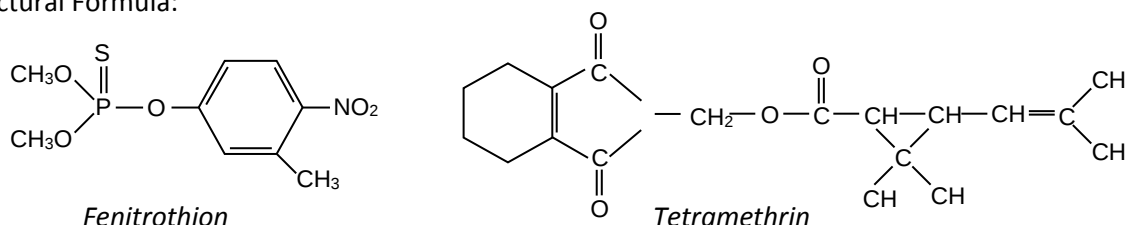
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Section 1: Identification of the Hazardous Chemical and of the Supplier

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:		
Solvent:	Suspected of causing cancer. 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.



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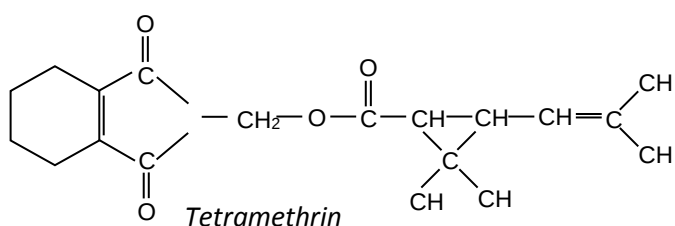
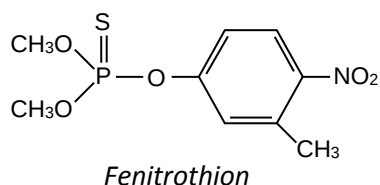
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Bahagian 1: Pengenalan Bahan Kimia dan Pembekal

1.1 Pengenalpastian Produk

Nama Produk: Cecair ULV Fenitrothion 40% + Tetramethrin 1%
Nama Dagangan: Sumithion L-40
Bahan Aktif: (1) O,O-dimethyl O-(3-methyl-4-nitrophenyl) phosphorothioate (Fenitrothion)
(2) 3,4,5,6-tetrahydrophthalimidomethyl (1RS)-cis,trans-chrysanthemate (Tetramethrin)
Nombor CAS (Bahan Aktif): (1) 122-14-5
(2) 7696-12-0

Formula Struktur:



Cadangan Penggunaan: Racun serangga

1.2 Maklumat Pembekal

Alamat: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
No. Tel.: +6-04-3907988
Fax: +6-04-3905703
Laman Web: www.agrichem.com.my
No. Tel. Kecemasan: +6-04-3907988

Bahagian 2: Pengenalan Bahaya

Pengelasan: Ketoksikan Akut (Oral), kategori 4
Ketoksikan Akut (Dermal), kategori 4
Kekarsinogenan, kategori 2
Ketoksikan organ sasaran khusus - pendedahan tunggal, kategori 1 (sistem saraf)
Ketoksikan organ sasaran khusus - pendedahan tunggal, kategori 3 (sistem saraf pusat)
Ketoksikan organ sasaran khusus - pendedahan berulang, kategori 1 (sistem saraf)
Bahaya Aspirasi, kategori 1
Berbahaya kepada persekitaran akuatik-bahaya akut, kategori 1
Berbahaya kepada persekitaran akuatik-bahaya kronik, kategori 1

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Piktogram Bahaya:



Kata Isyarat:

Bahaya

Pernyataan Bahaya:

H302 + H312	Memudaratkan jika tertelan atau terkena kulit
H336	Boleh menyebabkan mengantuk atau kepening
H351	Disyaki menyebabkan kanser
H370	Menyebabkan kerosakan sistem saraf
H372	Menyebabkan kerosakan sistem saraf melalui pendedahan berpanjangan atau berulang
H304	Boleh membawa maut jika tertelan dan memasuki saluran pernafasan
H400	Sangat toksik kepada hidupan akuatik
H410	Sangat toksik kepada hidupan akuatik dengan kesan kekal berpanjangan

Pernyataan Berjaga-jaga:

Pencegahan:

P260	Jangan sedut gas/kabus/wap/semburan.
P270	Jangan makan, minum atau merokok semasa menggunakan produk ini.
P273	Elakkan pelepasan bahan ke persekitaran.

Tindakan:

P301 + P310	JIKA TERTELAN: Segera hubungi PUSAT RACUN atau doktor/pakar perubatan.
P304 + P340	JIKA TERSEDUT: Pindahkan mangsa ke Kawasan berudara segar dan biarkan mangsa dalam keadaan rehat supaya mangsa dapat bernafas dengan selesa.
P307 + P311 P391	JIKA terdedah: Hubungi PUSAT RACUN atau doktor/pakar perubatan Pungut kumpul tumpahan.

Penyimpanan:

P403 + P233	Simpan di tempat yang dialihudarkan dengan baik. Pastikan bekas ditutup dengan ketat.
P405	Simpan di tempat berkunci.

Pelupusan:

P501	Lupuskan kandungan/bekas dengan betul mengikut peraturan tempatan/setempat/kebangsaan/antarabangsa.
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Bahagian 3: Komposisi dan Maklumat Mengenai Ramuan Bahan Kimia Berbahaya

Komponen	No. CAS	Berat, %	Kod Pernyataan Bahaya
Fenitrothion Teknikal	122-14-5	40	H302, H311, H370, H372, H400, H410
Tetramethrin Teknikal	7696-12-0	1	H400, H410
Pelarut	-	>50	H304, H336, H351, H411

Bahagian 4: Langkah-langkah Pertolongan Cemas

Penyedutan:	JIKA TERSEDUT: Pindahkan mangsa ke kawasan berudara segar dan biarkan mangsa dalam keadaan rehat supaya mangsa dapat bernafas dengan selesa.
Sentuhan Kulit:	JIKA TERKENA KULIT: Basuh dengan sabun dan air yang banyak. Tanggalkan pakaian yang tercemar dan basuh sebelum menggunakannya semula. Jika berlaku kerengsaan kulit: Dapatkan nasihat/rawatan perubatan.
Sentuhan Mata:	JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas. Jika kerengsaan mata berterusan: Dapatkan nasihat / rawatan perubatan.
Pengingesan:	JIKA TERTELAN: Segera hubungi PUSAT RACUN atau doktor/pakar perubatan. Berkumur.
Gejala:	Tiada data.
Nota kepada pakar perubatan:	Untuk Fenitrothion Teknikal: atropine sulfat atau pralidoxime iodid (PAM) disyorkan untuk keracunan akut, sebagai rawatan awal.

Bahagian 5: Langkah-langkah Pemadaman Kebakaran

Bahan Memadamkan Api yang Sesuai:	Karbon dioksida (CO ₂), buih kimia, serbuk kimia kering, semburan air.
Bahaya Khusus daripada Bahan Kimia:	Tiada data.
Kelengkapan Pelindung Khas:	Ahli bomba perlu memakai alat pernafasan yang lengkap dan pakaian pelindung.

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Bahagian 6: Langkah-langkah Pelepasan Tidak Sengaja

Perlindungan Diri:	Pakai sarung tangan pelindung/pakaian pelindung/perlindungan mata/perlindungan muka.
Perlindungan Alam Sekitar:	Elakkan pelepasan bahan ke persekitaran.
Kaedah Pembersihan:	Pindahkan kakitangan yang tidak berkaitan. Berikan pengudaraan kepada kawasan tercemar. Serap tumpahan menggunakan bahan lengai seperti tanah liat, pasir, serbuk kayu atau sebagainya. Kumpulkan ke dalam bekas sisa. Cuci kawasan tercemar menggunakan bahan pencuci dan sedikit air. Berus sluri dan letakkan bahan serapan lengai di atas sluri kemudian kumpulkan bahan terserap ke dalam bekas sisa yang sama. Tutup bekas sisa dan lupuskan. Jangan mencemarkan sumber air.

Bahagian 7: Pengendalian dan Penyimpanan

Langkah Berjaga-jaga untuk Pengendalian Selamat:	Pakai sarung tangan pelindung/pakaian pelindung/perlindungan mata/perlindungan muka. Basuh anggota badan yang terdedah sebersih-bersihnya selepas mengendalikan bahan. Jangan makan, minum atau merokok semasa menggunakan produk ini. Elakkan daripada tersedut kabus atau wap. Elakkan pelepasan bahan ke persekitaran.
Keadaan Penyimpanan Selamat:	Simpan di tempat yang dialihudarkan dengan baik. Pastikan bekas ditutup dengan ketat.
Bahan Tak Serasi:	Tiada data.

Bahagian 8: Kawalan Pendedahan dan Perlindungan Diri

Had Pendedahan:

Sumber	Komponen	No. CAS	Had Pendedahan	
ACGIH	Pelarut (mengadungi 1,2,4-Trimethyl Benzene)	-	TWA	25 ppm
Malaysia PEL	Pelarut (mengadungi Naphthalene)		PEL	52 mg/m ³ (10 ppm)
ACGIH			TWA	10 ppm (Kulit)

Kawalan Kejuruteraan:	Pengalihudaraan umum.
Langkah Perlindungan Individu:	Basuh tangan sebersih-bersihnya selepas mengendalikan bahan. Elakkan daripada tersedut kabus atau wap. Gunakan kelengkapan pelindung diri seperti yang diperlukan.
Kelengkapan Perlindungan Diri:	
Perlindungan Mata:	Pelindung mata
Perlindungan Kulit:	Sarung tangan pelindung dan pakaian pelindung

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Perlindungan Pernafasan: Perlindungan muka, topeng pernafasan

Bahagian 9: Sifat Fizikal dan Kimia

Rupa:	Cecair berwarna coklat pudar
Bau:	Bau tersendiri
Ambang bau:	Tiada data
pH:	Tiada data
Takat lebur/Takat Beku:	Tiada data
Takat Didih Awal:	Tiada data
Julat Didih:	140 - 145°C (13.3 Pa) (Fenitrothion Teknikal) 181 - 211°C (Pelarut)
Takat Kilat:	77°C
Kadar Penyejatan:	Tiada data
Kemudahbakaran:	Tiada data
Had Kemudahbakaran Atas:	Tiada data
Had Kemudahbakaran Bawah:	Tiada data
Tekanan Wap:	0.00157 Pa (25°C) (Fenitrothion Teknikal)) 0.1 kPa (0.75 mmHg) (20°C) (Pelarut)
Ketumpatan Wap:	4.6 (101 kPa) (Pelarut)
Ketumpatan Bandingan:	Tiada data
Keterlarutan dalam Air:	Tidak larut di dalam air
Pekali Petakan (n-oktanol/air):	3.43 (20°C) (Fenitrothion Teknikal)
Suhu Pengautocucuhan:	299 ± 5°C (Fenitrothion Teknikal) 448°C (Pelarut)
Suhu Penguraian:	kira-kira 210°C (Fenitrothion Teknikal)
Kelikatan:	Tiada data

Bahagian 10: Kestabilan dan Kereaktifan

Kereaktifan:	Tiada data.
Kestabilan Kimia:	Stabil sekurang-kurangnya 3 tahun di bawah keadaan penyimpanan normal.
Kemungkinan Tindak Balas Berbahaya:	Tiada data.
Keadaan yang perlu Dielakkan:	Cahaya matahari terus, haba dan suhu melampau.
Bahan Tak Serasi:	Tiada data.
Produk Penguraian Berbahaya:	Tiada data

Bahagian 11: Maklumat Toksikologi

11.1 Ketoksikan Akut

Komponen: Fenitrothion Technical

Ingesan, Oral LD ₅₀ :		
	Tikus	330 mg/kg

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Sentuhan Kulit, Dermal LD ₅₀ :		
	Tikus	890 mg/kg
Penyedutan, kabus/wap, LC ₅₀ :		
	Tikus (4h)	>2.210 mg/L
Komponen: Tetramethrin Teknikal		
Ingesan, Oral LD ₅₀ :		
	Tikus	>5000 mg/kg
Sentuhan Kulit, Dermal LD ₅₀ :		
	Tikus	>5000 mg/kg
Penyedutan, LC ₅₀ :		
	Tikus (3h)	1180 mg/m ³

11.2 Kesan Kronik Daripada Pendedahan Jangka Pendek dan Panjang

Sentuhan Kulit:

Fenitrothion Teknikal:	Arnab (ujian kerengsaan/kakisan kulit): tidak merengsa
Tetramethrin Teknikal:	Arnab: tidak merengsa
Pelarut:	Akan mengeringkan kulit yang seterusnya akan menyebabkan ketidakselesaan dan dermatitis.

Sentuhan Mata:

Fenitrothion Teknikal:	Arnab (ujian kerengsaan/kakisan mata): sedikit merengsa
Tetramethrin Teknikal:	Arnab: tidak merengsa
Pelarut:	Mungkin menyebabkan sedikit ketidakselesaan yang tidak berpanjangan kepada mata

Penyedutan:

Tiada data

Pengingesan:

Memudaratkan jika tertelan

Kekarsinogenan:

Pelarut:	Disyaki menyebabkan kanser
	Menyebabkan kanser kepada haiwan makmal, tetapi tidak pasti kesannya terhadap manusia

Kemutagenan Sel Germa:

Fenitrothion Teknikal:

In vitro: Ujian Ames (*S. typhimurium* and *E. coli*): Negatif

Ujian penyimpangan Chromosome

(sel hamster China): Negatif

Ujian mutase gen (sel hamster China): Negatif

In vivo:

Ujian Micronucleus

(Tikus (*mouse*), oral, sumsum tulang): Negatif

Ujian *dominant lethal* (tikus): Negatif

Pelarut:

Tidak dijangka akan menjadi mutagen

Ketoksikan Organ Pembiakan:

Fenitrothion Teknikal:

Keteratogenan: Kajian teratologi terhadap tikus (oral): Tidak teratogenik

Kajian teratologi terhadap arnab (oral): Tidak teratogenik

Pembiakan Semula:

Kajian pembiakan semula dua generasi terhadap tikus (pemakanan): Tiada kesan terhadap pembiakan semula

Pelarut:

Tidak dijangka akan menjadi bahan toksik organ pembiakan

Ketoksikan Organ Sasaran Khusus – Pendedahan Tunggal:

Fenitrothion Teknikal: Kajian ketoksikan akut terhadap tikus (oral): Sistem saraf

	Helaian Data Keselamatan	No. SDS: SDS-P/L-S/03
		Semakan: 1, 1 Isu
		Mukasurat 7 daripada 9

Ketoksikan Organ Sasaran Khusus – Pendedahan Berulang:

Fenitrothion Teknikal: Kajian 6 bulan ketoksikan subkronik terhadap tikus (pemakanan):
Sistem saraf
Kajian 90 hari ketoksikan dos berulang terhadap tikus (pemakanan):
Sistem saraf
Kajian ketoksikan dos berulang terhadap arnab (sentuhan kulit):
Sistem saraf

11.3 Gejala

Tiada data

Bahagian 12: Maklumat Ekologi

Keekotoksikan:

Komponen: Fenitrothion Teknikal

Ketoksikan akut		
Ikan:	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
Krustasea:	<i>Daphnia magna</i> , EC ₅₀ (48h)	0.0045 mg/L
Alga:	Alga hijau, ErC ₅₀ (0-72h)	2.73 mg/L
Ketoksikan kronik:		
Ikan:	Rainbow Trout, NOEC	0.088 mg/L
Krustasea:	<i>Daphnia magna</i> , NOEC	0.087 mg/L
Alga:	Alga hijau, NOECr	0.78 mg/L
Komponen: Tetramethrin Teknikal		
Ketoksikan akut - fikan:		
	Rainbow Trout, LC ₅₀ (96h)	0.037 mg/L
Ketoksikan akut – invertebra akuatik:		
	<i>Daphnia magna</i> , EC ₅₀ (48h)	0.11 mg/L

Keselajaran dan

Keterdegradan: Tiada data.

Potensi Bioterkumpul: Tiada data.

Kebolehergerakan di dalam Tanah: Tiada data.

Kesan Mudarat yang lain: Tiada data.

Bahagian 13: Maklumat Pelupusan

Lupuskan kandungan/bekas dengan betul mengikut peraturan tempatan/setempat/kebangsaan/antarabangsa.

	Helaian Data Keselamatan Sumithion L-40	No. SDS: SDS-P/L-S/03
		Semakan: 1, 1 Isu
		Mukasurat 8 daripada 9

Bahagian 14: Maklumat Pengangkutan

Darat (ADR/RID)		
Nama Penghantaran Sah PBB		Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Kelas Bahaya		6.1
Kod Hazchem		-
Nombor UN		2903
Kumpulan Pembungkusan		III
Label / Tanda		6(3)
Laut (IMDG)		
Nama Penghantaran Sah PBB		Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Kelas Bahaya		6.1
Nombor UN		2903
Kumpulan Pembungkusan		III
Bahan Cemar Marin		-
Label		6(3)
Nama Dokumen Pengangkutan		-
Udara(IATA)		
Nama Penghantaran Sah PBB		Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Kelas Bahaya		6.1
Nombor UN		2903
Kumpulan Pembungkusan		III
Label / Tanda		6(3)
Nama Dokumen Pengangkutan		-

Bahagian 15: Maklumat Pengawalseliaan

Pengelasan:	Ketoksikan Akut (Oral), kategori 4 Ketoksikan Akut (Dermal), kategori 4 Kekarsinogenan, kategori 2 Ketoksikan organ sasaran khusus - pendedahan tunggal, kategori 1 (sistem saraf) Ketoksikan organ sasaran khusus - pendedahan tunggal, kategori 3 (sistem saraf pusat) Ketoksikan organ sasaran khusus - pendedahan berulang, kategori 1 (sistem saraf)
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	Helaian Data Keselamatan	No. SDS: SDS-P/L-S/03
		Semakan: 1, 1 Isu
		Mukasurat 9 daripada 9

Bahaya Aspirasi, kategori 1
 Berbahaya kepada persekitaran akuatik-bahaya akut, kategori 1
 Berbahaya kepada persekitaran akuatik-bahaya kronik, kategori 1

Kata Isyarat: Bahaya

Piktogram Bahaya:



Akta Racun Perosak: Kelas II
 Pengelasan: Beracun

Bahagian 16: Maklumat Lain

Tarikh Penyediaan: 18 November 2015
 Tarikh Semakan: 2 Oktober 2019
 Dokumen Rujukan: Tataamalan Industri mengenai Pengelasan Bahan Kimia dan Komunikasi Hazard 2014
 Buku Ungu GHS

Penafian: Maklumat terkandung adalah benar setakat pengetahuan ACM. ACM tidak bertanggungjawab ke atas ketepatan dan kelengkapan maklumat.

Bahasa utama SDS adalah Bahasa Inggeris. Penterjemahan dalam Bahasa Malaysia adalah untuk memudahkan pemahaman sahaja. Sekiranya berlaku percanggahan antara Bahasa Malaysia dan Bahasa Inggeris, versi Bahasa Inggeris akan digunapakai.