

**SAFETY DATA SHEET**  
Fyfanon ULV Mosquito

SDS #: FO002161-1-A  
Revision date: 2018-06-28  
Format: NA  
Version 1.01



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** Fyfanon ULV Mosquito

**Other means of identification**

**Product Code(s)** FO002161-1-A

**Legacy Product Code** 300

**Synonyms** MALATHION: diethyl [(dimethoxyphosphinothioyl)thio]butanedioate (CAS Name);  
diethyl(dimethoxyphosphinothioylthio)succinate (IUPAC Name)

**Active Ingredient(s)** Malathion

**Chemical Family** Organophosphate

**PCP #** 9337

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label.

**Supplier Address**

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

**Emergency telephone number**

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical Emergencies:  
1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)  
1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation

Category 2


Serious eye damage/eye irritation	Category 2B
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**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Warning**

**Hazard Statements**  
 H315 - Causes skin irritation  
 H320 - Causes eye irritation  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects



**Precautionary Statements - Prevention**

- P264 - Wash hands thoroughly after handling
- P280 - Wear protective gloves
- P273 - Avoid release to the environment

**Precautionary Statements - Response**

- P308 + P313 - If exposed or concerned: Get medical advice/attention
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/ attention
- P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P363 - Wash contaminated clothing before reuse
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P310 - Immediately call a POISON CENTER or doctor
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P391 - Collect spillage

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

- P501 - Dispose of contents/container according to label directions

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

Very toxic to aquatic life with long lasting effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Family** Organophosphate.

Chemical name	CAS-No	Weight %
Malathion Technical	121-75-5	60-100

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Move person from contaminated area to fresh air. Seek medical attention immediately. If person is not breathing, give artificial respiration, preferably by mouth-to-mouth, if possible.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Rinse mouth with water and afterwards drink plenty of water or milk. If vomiting does occur, rinse mouth and drink fluids again. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
<b>Most important symptoms and effects, both acute and delayed</b>	Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems producing respiratory depression.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	<p>This product contains a reversible cholinesterase inhibitor. If any sign of cholinesterase inhibition occurs, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to an organophosphorus insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present.</p> <p>ANTIDOTE: If symptoms are present, administer atropine sulphate, which often is a lifesaving antidote, in large doses, TWO to FOUR mg intravenously or intramuscularly as soon as possible. Repeat at 5 to 10 minute intervals until signs of atropinisation appear and maintain full atropinisation until all organophosphate is metabolized. Relapse can occur after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS DEPENDING ON THE SEVERITY OF THE POISONING.</p>

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Water spray, Foam. Avoid heavy hose streams.
<b>Specific Hazards Arising from the Chemical</b>	This product is considered non-flammable. Material will decompose rapidly when exposed to heat (>212° F/100° C) and flame, increasing the risk of explosion. Heat of decomposition may cause closed containers to build up pressure and explode.
<b>Hazardous Combustion Products</b>	The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as: Dimethyl sulphide, methyl mercaptan, Sulfur dioxide, Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), phosphorus pentoxide.
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not expected to be sensitive to mechanical impact.
<b>Sensitivity to Static Discharge</b>	Not expected to be sensitive to static discharge.
<b>Protective equipment and precautions for firefighters</b>	Use water spray to cool fire exposed surfaces and protect personnel. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Dike to prevent runoff. As in any fire, wear self-contained breathing apparatus and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

<b>Environmental Precautions</b>	Contain the spill to prevent any further contamination of surface, soil or water. Try to prevent the material from entering drains or water courses.
<b>Methods for Containment</b>	Wear the full Personal Protection Equipment, avoiding inhalation or contact with skin or eyes. Dike to contain spill with inert material which is absorbent and non-combustible (clay, sand or soil). Then soak up with absorbent material inward from the edges.
<b>Methods for cleaning up</b>	Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled material with inert, non-combustible absorbent material, such as sand. Sweep up and shovel into suitable containers for disposal. For a water spill, confine the spill immediately with booms. Notify the appropriate authorities as required. Carefully cover spilled material with soda ash or quicklime to neutralize. Do not flush into surface water or sanitary sewer system. For large spills on surfaces other than pavement (e.g. soil or sand), spills may be handled by digging up and removing the affected surface and placing it in approved containers.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. Refer to Section 8.
<b>Storage</b>	Keep at a temperature not exceeding 25°C. The product should never be heated above 55°C. Local heating above this temperature should be avoided as well. Keep away from heat and sources of ignition i.e., steam pipes, radiant heaters, hot air vents or welding sparks. Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs. Keep/store only in original container. Keep in properly labeled containers.
<b>Packaging material</b>	Always keep in containers made of the same materials as the supply container.
<b>Incompatible products</b>	Strong alkalis, Amines, Strong oxidizing agents. The product can corrode iron, steel, tin plate and copper and is rapidly hydrolyzed at pH > 7.0.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Malathion Technical (121-75-5)	TWA: 1 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> S*	IDLH: 250 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	Mexico: TWA 10 mg/m <sup>3</sup>
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Malathion Technical (121-75-5)	TWA: 1 mg/m <sup>3</sup> Skin	TWA: 10 mg/m <sup>3</sup> Skin	TWA: 1 mg/m <sup>3</sup> inhalable fraction and vapor  Skin	TWA: 1 mg/m <sup>3</sup> Skin

**Appropriate engineering controls**

**Engineering measures** Apply technical measures to comply with the occupational exposure limits (if listed above). When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport vehicles prior to discharge.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. Maintain eye wash fountain and quick-drench facilities in

work area.

<b>Skin and Body Protection</b>	Use coveralls or long-sleeved uniform and head covering. For large exposures as in case of a spill, use barrier suit covering the entire body, such as a waterproof PVC suit. Leather items, including shoes, belts and watchbands, that have been contaminated should be removed and destroyed. Wash all work clothing before reuse (separately from clothing commonly used).
<b>Hand Protection</b>	Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.
<b>Respiratory Protection</b>	Do not breathe vapors, mist or gas. The product does not automatically present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment with a universal filter type including particle filter.
<b>Hygiene measures</b>	Avoid contact with skin, eyes and clothing. Must have clean water available for washing in case of eye or skin contamination. Wash skin before eating, drinking, chewing gum, or using snuff. Shower after work. Remove contaminated clothing and wash before reuse. Wash all work clothing separately; do not mix with household laundry. Persons working with this product for a longer period should have frequent blood tests for cholinesterase levels. If the cholinesterase levels fall below a critical point, no further exposure should be allowed until it has been determined, by means of blood tests, that cholinesterase levels have returned to normal.
<b>General information</b>	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Suspension
<b>Physical State</b>	Liquid
<b>Color</b>	Colorless, Light yellow
<b>Odor</b>	Aromatic
<b>Odor threshold</b>	No information available
<b>pH</b>	3.7-3.8 @ 20 °C (when equal amounts of malathion and distilled water are dispersed)
<b>Melting point/freezing point</b>	2.85 °C
<b>Boiling Point/Range</b>	156 °C @ 0.7 mm Hg (Decomposes)
<b>Flash point</b>	163 °C (PMCC)
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	Not applicable (Product is a liquid)
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	3.4 x 10 <sup>-6</sup> @ 25°C 1.4 x 10 <sup>-4</sup> @ 45°C
<b>Vapor density</b>	No information available
<b>Density</b>	1.23 g/mL @ 20°C
<b>Specific gravity</b>	1.23 g/mL @ 20°C
<b>Water solubility</b>	Emulsifies
<b>Solubility in other solvents</b>	Solubility of malathion @20°C in: ethyl acetate = >250 g/L= 57-67 g/L= 148.2 mg/L @ 25°C K <sub>ow</sub> = 560 (n-octanol/water)
<b>Partition coefficient</b>	
<b>Autoignition temperature</b>	278 °C
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Non-oxidizing
<b>Molecular weight</b>	No information available
<b>Bulk density</b>	10.26 lb/gal

**10. STABILITY AND REACTIVITY**

**Reactivity** None under normal use conditions

**Chemical Stability** Malathion will decompose rapidly when heated to temperatures above 140°C, significantly increasing the risk of explosion. Direct local heating such as electric heating or by steam must be avoided.

The decomposition is dependent on time as well as temperature due to self-accelerating exothermic and autocatalytic reactions. The reactions involve rearrangements and polymerisation releasing volatile malodorous and inflammable compounds such as dimethyl sulphide and methyl mercaptan.

**Possibility of Hazardous Reactions** None under normal processing. Decomposition can occur on exposure to heat or moisture.

**Hazardous polymerization** Hazardous polymerization may occur.

**Conditions to avoid** Temperatures above 25°C. Heating can release hazardous gases. The product should never be heated above 55°C. Local heating above this temperature should be avoided as well.

**Incompatible materials** Strong alkalis, Amines, Strong oxidizing agents. The product can corrode iron, steel, tin plate and copper and is rapidly hydrolyzed at pH > 7.0.

**Hazardous Decomposition Products** See Section 5 for more information.

**11. TOXICOLOGICAL INFORMATION**

Product Information

**LD50 Oral** : ~ 5500 mg/kg (rat)  
**LD50 Dermal** : > 2000 mg/kg (rabbit)  
**LC50 Inhalation** : > 5.2 mg/L 4 hr (rat)

**Serious eye damage/eye irritation** Slightly irritating to eyes.  
**Skin corrosion/irritation** Slightly irritating.  
**Sensitization** Non-sensitizing

Information on toxicological effects

**Symptoms** Malathion is a cholinesterase inhibitor affecting the central and peripheral nervous systems producing respiratory depression. On contact, the first symptoms to appear may be irritation. Symptoms of cholinesterase inhibition: nausea, headache, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Mutagenicity** The product contains no ingredients known to be mutagenic.  
**Carcinogenicity** Malathion: Limited evidence of a carcinogenic effect  
**Neurological effects** Malathion: No information available  
**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.  
**STOT - single exposure** No known effects under normal use conditions.  
**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure. See listed target organs below.  
**Target organ effects** Nervous System, Acetylcholinesterase Inhibition  
**Neurological effects** Malathion: No information available  
**Aspiration hazard** The product does not present an aspiration pneumonia hazard.

Chemical name	ACGIH	IARC	NTP	OSHA
Malathion Technical 121-75-5		Group 2A		X

Legend:

IARC (International Agency for Research on Cancer)  
 Group 2A - Probably Carcinogenic to Humans  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Malathion is very toxic to fish, aquatic invertebrates, aquatic life stages of amphibians and insects. It is less toxic to aquatic plants, birds and soil macro- and microorganisms.

<b>Malathion Technical (121-75-5)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
Malathion	96 h LC50	Oncorhynchus mykiss (rainbow trout)	0.18	mg/L
	37-day NOEC	Oncorhynchus mykiss (rainbow trout)	21	µg/L
	48 h EC50	Daphnia magna	0.72	µg/L
	21 d NOEC	Daphnia magna	0.06	µg/L
	72-h IC50	Selenastrum capricornutum	4.06	mg/L
	LD50	Bobwhite quail	359	mg/kg
	5-day dietary LC50	Bobwhite quail	3497	mg/kg
	LD50	Mallard duck	1485	mg/kg
	14-day LC50	Earthworm	613	mg/kg
	LD50 acute oral	Honey bees	0.38	µg/bee
	LD50 topical	Honey bees	0.27	µg/bee

**Persistence and degradability** Malathion: Readily biodegradable, Non-persistent.

**Bioaccumulation** Malathion: Not expected to bioaccumulate.

**Mobility** Malathion: Medium mobility; has some potential to reach groundwater.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

**14. TRANSPORT INFORMATION**

**DOT** Product is not regulated if containers are less than 100 pounds. If containers are 100 pounds or more, the classification below applies:

<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard class</b>	9
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	Malathion.
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (malathion), 9, III, Marine pollutant, RQ

**TDG**  
**UN/ID no** UN3082

**Fyfanon ULV Mosquito**

**SDS # :** FO002161-1-A  
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**Version** 1.01

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**Marine Pollutant** Malathion.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (malathion), 9, III, Marine pollutant, RQ

**ICAO/IATA**

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (malathion), 9, III, Marine pollutant, RQ

**IMDG/IMO**

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class** 9  
**Packing Group** III  
**EmS No.** F-A, S-F  
**Marine Pollutant** Malathion  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (malathion), 9, III, Marine pollutant, RQ

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Malathion Technical - 121-75-5	121-75-5	60-100	1.0

**SARA 311/312 Hazard Categories**

**Acute health hazard** Yes  
**Chronic health hazard** Yes  
**Fire hazard** No  
**Sudden release of pressure hazard** No  
**Reactive Hazard** No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Malathion Technical 121-75-5	100 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Malathion Technical 121-75-5	100 lb 45.4 kg	



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### FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### CAUTION

Harmful if swallowed.

Harmful if absorbed through skin.

Harmful if inhaled.

Avoid contact with eyes, skin, or clothing.

Avoid breathing spray mist.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Prop. 65
Malathion Technical - 121-75-5	Carcinogen

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Malathion Technical 121-75-5	X	X	X

## International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Malathion Technical 121-75-5		X	X	X	X	X	X	X

### Mexico - Grade

Moderate risk, Grade 2

Chemical name	Carcinogen Status	Mexico
Malathion Technical		Mexico: TWA 10 mg/m <sup>3</sup>

## CANADA

### WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR

This product is a Pest Control Product and is not regulated as a Controlled Product under the Hazardous Products Act (HPA). However, for reference purposes only, this product would have the following WHMIS Classification if it were regulated as a Controlled Product under the HPA:

### WHMIS Hazard Class

D2B - Toxic materials

F - Dangerously reactive material



**16. OTHER INFORMATION**

NFPA	Health Hazards 2	Flammability 1	Instability 1	Special Hazards -
HMIS	Health Hazards 2	Flammability 1	Physical hazard 0	Personal Protection X

*\*Indicates a chronic health hazard.*

**NFPA/HMIS Ratings Legend**                      Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision date:                                      2018-06-28  
 Reason for revision:                              (M)SDS sections updated

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**End of Safety Data Sheet**