

Report 21-Aug-15 Date

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Identification

Product Name: FYFANON

Synonyms: Malathion Insecticide

Product Use: Organophosphorous Pesticide Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

Hazard Identification



Signal Word : Danger

Skin Irritation: Causes mild skin irritation Eye Irritation: Causes eye irritation Acute Toxicity Oral : LD50 >3,000 mg/kg (rat) Acute Toxicity Dermal: LD50 >2,020 mg/kg (rabbit)

Hazard Categories: Oral/Dermal/Inhalation Toxicity-5/5/3; Eye/Skin Irritation-2B/3

Hazard Statement: May be harmful if swallowed

May be harmful in contact with skin

Causes eye irritation Causes mild skin irritation

Toxic if inhaled

Composition / Information on Ingredients

Component **CAS Number** Weight % Malathion 121-75-5 56.44 Petroleum Distillates 64742-94-5 39.56 Inert ingredients, including emulsifiers 4.00

First Aid Measures

Eye: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing

eye. Call a poison control center or doctor for further treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for

15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move to fresh air. If not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth to mouth.

Ingestion: Call a physician or poison control center immediately. Drink 1 or 2 glasses of

water and induce vomiting by touching the back of the throat with finger. Do not

induce vomiting or give anything by mouth to an unconscious person. Indication of Immediate Medical : Fyfanon is a cholinesterase inhibitor with moderate oral toxicity. Administer

atropine sulfate at 2 to 4 mg doses intravenously or intramuscularly. Repeat at **Attention and Special Treatment**

15 minute intervals until atropinization occurs. Needed

5. Fire Fighting Measures



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Extinguishing Media: Use foam, dry chemical, carbon dioxide or water spray when fighting fires

involving this material.

Specific Hazards Arising from the : Containers may burst or explode from excessive heat during a fire. Vapors

Chemical may travel back along the floor to ignition source and flash back.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective equipment. Fight

fire from upwind. Avoid runoff.

6. Accidental Release Measures

Personal Precautions: Keep unprotected and unnecessary personnel out of spill area.

Protective Equipment: Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use air-purifying respirator with NIOSH prefix TC-21C when needed.

Eyewash and emergency shower should be available in work area.

Emergency Procedures : Isolate spill area. Prevent contamination to streams, sewers, lakes and ponds.

Methods and Materials for: Dike to confine spill and absorb with an absorbent such as clay, sand or cat **Containment and Cleanup**: Litter. Vacuum, shovel or scoop up spilled material and place in an approved

container for proper disposal. To decontaminate spill area or cleanup equipment, wash with a suitable solution (e.g., organic solvent, bleach or

caustic), collect and place in drums with collected spill material.

7. Handling and Storage

Precautions for Safe Handling: Keep locked up and out of reach of children. Do not contaminate water, food or

feed by storage, handling or disposal. Keep container tightly closed. Do not

allow water to be introduced into the contents of the container.

Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not

store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

TLV/PEL: TLV=1 mg/m3 (malathion; inhalable fraction, vapor and aerosol, skin); PEL=15

mg/m3 (malathion, skin)

Appropriate Engineering Controls : Local exhaust should be sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Use air-purifying respirator with NIOSH prefix TC-21C when needed.

Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance: Clear, yellow liquid with putrid (mercaptan) odor.

Flash Point, °F : >150 Degrees F.

Boiling Point, °F : 300 Degrees F. (technical)

Melting Point(Freezing point), °C : <32 Degrees F.

Vapor Pressure, mm Hg @ 20 °C : 9 mmHg

Vapor Density : 3.6 (air=1.0)
Solubility in Water : 0.01%

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.060-1.080 Evaporation Rate(Butyl Acetate = : Not determined

1)

Octanol/Water Partition : No information found

Coefficient

pH : 3.0 to 6.0 (at 1.0%)



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Flammable Limits (approximate : Not determined

volume % in air)

Auto-ignition Temperature : Not determined Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition: Thermal decomposition and burning may produce highly toxic byproducts.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: None currently known

Incompatible Materials : Avoid alkaline and acidic conditions and materials. Avoid oxidizing materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >3,000 mg/kg (rat). May be harmful if swallowed.

Acute Toxicity (Dermal LD50) : >2,020 mg/kg (rabbit). May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : >7.03 mg/L (rat). Toxic if inhaled. Vapor or spray mists may be harmful if

inhaled.

Likely Routes of Exposure : Skin, inhalation, eyes, ingestion.

Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : None currently known.

Chronic Effects: Malathion is a cholinesterase inhibitor. Overexposure may cause depressed

cholinesterase activity, headache, excessive salivation, vomiting, uneasiness, anxiety, tremors, nausea, diarrhea, abdominal cramps and other symptoms.

Other Hazards: None currently known.

12. Ecological Information

Ecotoxicity: Marine Pollutant, listed on Appendix B to 49 CFR 172.101.

Persistence and Degradability : No information found Bioaccumulative Potential : No information found Mobility in Soil : No information found

Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name: Not regulated by DOT in single containers of less than 20 gallons. Regulated in

all sizes by IMDG.

Transport Hazard Class: None if package <20 gallons.

UN Identification Number: None if <20 gallons

Packaging Group: None if package <20 gallons.



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Environmental Hazards : Marine Pollutant (malathion)

Transport in Bulk : For shipment in bulk packages (>119 gallon), ship as: RQ, UN3082,

Environmentally Hazardous Substance, Liquid, n.o.s. (Malathion), 9, PG III,

Marine Pollutant "ERG # 171"

Special Precautions for : If shipped in single package >/= 20 gallons, ship as: RQ, UN3082,

Transportation Environmentally Hazardous Substance, Liquid, n.o.s. (Malathion), 9, PG III

"ERG # 171"

Freight Classification: Pesticides, NOI, Insecticides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)

15. Regulatory Information

National Fire Protection :

Association Rating

Health: 2 Fire: 2 Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate(Acute) Health: Y Delayed (Chronic) Health: N

Sudden Release of N Pressure:

Fire: Y Reactive: N

FIFRA Information: This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling 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:

EPA Registration Number: 5905-196 **FIFRA Signal Word**: Warning

FIFRA Label Statement : Causes substantial but temporary eye injury.

FIFRA Label Statement : Do not get in eyes. FIFRA Label Statement : Harmful if swallowed.

FIFRA Label Statement : Harmful if absorbed through skin.
FIFRA Label Statement : Avoid contact with skin and clothing.

FIFRA Label Statement : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 21-August-2015