

SAFETY DATA SHEET

In the event of a medical or chemical emergency contact
ChemTel, Inc. North American 1-800-255-3924 or worldwide
Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: 05/18/2015



Hi-Yield® 55% Malathion Spray

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: Hi-Yield® 55% Malathion Spray
EPA Reg. No.: 7401-10-34911
CHEMICAL FAMILY: Organophosphate Insecticide

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. HAZARDS IDENTIFICATION:

KEEP OUT OF REACH OF CHILDREN – CAUTION Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.



This product is straw to amber colored liquid with a mild mercaptan odor.

3. COMPOSITION, INFORMATION OF INGREDIENTS:

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Malathion	55.00	121-75-5	15 mg/m ³ (skin)
Other Ingredients (contains Naphthalene)	43.00	91-20-3	52 mg/m ³

This product is hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

4. FIRST AID MEASURES:

- If swallowed
- Immediately call a poison control center or doctor.
 - Do not induce vomiting unless told to do so by a poison control center or doctor.
 - Do not give any liquid to the person.
 - Do not give anything by mouth to an unconscious person.
- If on skin or clothing
- Take off contaminated clothing.
 - Rinse skin immediately with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for treatment advice.
- If in eyes
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 - Call a poison control center or doctor for treatment advice.
- If inhaled
- Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
 - Call a poison control center or doctor for further treatment advice.

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 or 1-800-900-4044 for emergency medical treatment information.

NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumonia. This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

5. FIRE FIGHTING MEASURES:

FLASH POINT (°F/Test Method): 155F / 68.3C (TCC)
FLAMMABLE LIMITS (LFL & UFL): None established
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition products include oxides of sulfur and phosphorus-containing compounds. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiates.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire or cool containers, contain runoff by diking to prevent contamination of water supplies. Containers in fire may burst or explode from excessive heat. Stay well back from fire area.

6. ACCIDENTAL RELEASE MEASURES:

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

For small spills, absorb with an absorbent material such as pet litter. Sweep up and transfer to containers for possible land application according to label use or for proper disposal. Check local, state and federal regulations for proper disposal. Flush the area with water to remove any residue.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE:

HANDLING: Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Hi-Yield 55% Malathion Spray should be stored in the original unopened container in a secure dry place. Do not contaminate with other pesticides or fertilizers. The product should never be heated above 55°C (131°F), and should not be stored for long periods of time at a temperature in excess of 25°C (77°F). Do not contaminate water, food or feed by storage or disposal.

Personal Protective Equipment (PPE): For all formulations and all use patterns – mixers, loaders, applicators, flaggers, and other handlers must wear: protective eyewear (goggles, face shield, safety glasses), long sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. See Engineering Controls for additional requirements.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

RESPIRATORY PROTECTION: Not normally required, if vapors or mists exceed acceptable levels, wear a NIOSH approved pesticide respirator.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, hat, shoes with socks.
Wear chemical-resistant gloves.

OSHA PEL 8 hr TWA

Malathion 15 mg/m³ (Skin) - 1 mg/m³

Naphthalene 50 mg/m³

Trimethylbenzene

ACGIH TLV-TWA

(Inhalable fraction of aerosol); BEI*

52 mg/m³

123 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE AND ODOR: Straw to amber liquid with mild petroleum odor.

SOLUBILITY: Emulsifies

SPECIFIC GRAVITY (Water = 1): 1.0768 g/ml

BULK DENSITY: 8.99 lbs. /gal.

pH: 4.4 (5% solution)

VAPOR PRESSURE: 28.4 mm/Hg @ 25OC

BOILING POINT: >300OF/>148.9OC

PERCENT VOLATILE (by volume): > 30%

EVAPORATION RATE: Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY & REACTIVITY DATA:

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat and ignition sources.

INCOMPATIBILITY: Chemical incompatibility of this product is likely to occur when the product is mixed or comes into contact with common oxidizing or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulfur, oxides of nitrogen and phosphorus-containing compounds. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION:

Acute Oral LD50 (rat): 550 mg/kg (Technical)

Acute Dermal LD50 (rabbit): > 2000 mg/kg (Technical)

Eye Irritation (rabbit): Slight irritation (Technical)

Skin Irritation (rabbit): Slight irritation (Technical)

Inhalation LC50 (rat): >5.2 mg/L (4 hr) (Technical).

Skin Sensitization (Guinea Pig): Not a sensitizer (Technical).

Carcinogenic Potential: Naphthalene has been determined to be a possible human carcinogen (Group 2B) by IARC; not classifiable as a human carcinogen by ACGIH; and a possible human carcinogen with further research needed by US EPA.

12. ECOLOGICAL INFORMATION:

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This pesticide is toxic to aquatic organisms, including fish and invertebrates. This product may contaminate water through drift of spray in wind. This product has a high potential for runoff after application. Use care when applying in or to an area which is adjacent to any body of water, and do not apply when weather conditions favor drift from target area. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS:

PESTICIDE STORAGE: Store in original container. Keep in an area inaccessible to children and pets.

PESTICIDE DISPOSAL: If empty: **Non-refillable container.** Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORTATION INFORMATION:

DOT Shipping Description: LESS THAN 12.5 GALLONS NOT REGULATED BY USDOT.

DOT Shipping Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN3082, III (MALATHION) RQ ERG GUIDE 171

U.S. Surface Freight Classification: INSECTICIDES, INSECT REPELLENTS, NOI, OTHER THAN POISON (NMFC 102120, CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION:

NFPA & HMIS Hazard Ratings:

NFPA		HMIS
2 Health	0 Least	2 Health
2 Flammability	1 Slight	2 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	H PPE
	4 Severe	

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N
Delayed Y Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Malathion (CAS: 121-75-5): 100 pounds

SARA, Title III, Section 313: Malathion (CAS: 121-75-5) 55.0%

RCRA Waste Code: Not listed

CA Proposition 65: **WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER INFORMATION:

Prepared By: VPG, Inc. – Regulatory Department.