



Material Safety Data Sheet

MALATHION 50% EC

Manufacturer:

TARSIS LTD P.O. BOX 2630 PETHACH TIKVA 4912502
TEL: 972-3-9223785
FAX: 972-3-9243618

Updated:05/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Malathion 50% EC
Product Type: Plant Protection Insecticide
Supplier: TARSIS LTD P.O. BOX 10156 PETHACH TIKVA
Tel 972-3-9223785
Emergency Telephone Number: Mr. Shevach Tenzer , tel. 972-52-3893739

2. HAZARD IDENTIFICATION

Hazard Statements

H226 – Flammable Liquid
H302- Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H332 – Harmful if inhaled
H410 – very toxic to aquatic life with long lasting effects
H320 - Causes eye irritation
H373 - May cause damage to the nervous system through prolonged or repeated exposure
H410 – Very toxic to aquatic life with long-lasting effects

**Precautionary Statements**

P261 – Avoid breathing mists, vapours or spray
P280 – Wear protective gloves, clothing eye and face protection
P301+P330 – If swallowed immediately call a physician or a poison information center
P331 – If swallowed : do not induce vomiting. P501- Dispose of container or waste as hazardous material
P302 – If on skin: Wash with plenty of water. Take off contaminated clothing.
P305 – If in eyes: Rinse with water for several minutes. Remove contact lenses. If eye irritation persists get medical attention
P270 – Do not eat , drink or smoke when using this product.
P271 – Use only outdoor or in a well-ventilated area



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P363 – Wash contaminated clothing before reuse

P412 – Do not store at temperatures exceeding 50°C

P304+P340 – If inhaled : take victim to fresh air and keep him at rest in a comfortable breathing position.

P210 – Keep away from sparks, open flame or hot surfaces. Do not smoke

P242 – Use only non sparking tools

3. COMPOSITION and INFORMATION on INGREDIENTS

Ingredient Name	CAS reg. no.	Content g/l or % w/w
Malathion	121-75-5	500 g/L , 56%
Other ingredients	N/A	44%

4. FIRST AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

INGESTION:

Rinse mouth thoroughly with water and drink 1 – 2 glasses of water. Do not induce vomiting . Seek medical advice immediately and show product label to the physician. Contact the poison information center.

EYE CONTACT:

Hold eyelids open and wash eyes with plenty of water for at least 15 minutes. Seek medical advice immediately and show product label to the physician.

SKIN CONTACT:

Remove contaminated clothing and wash skin with soap and plenty of water. Obtain medical advice

INHALATION:

Remove the victim immediately to fresh air. Obtain medical advice. Call the poison information center

Note to Physician:

An anticholinesterase compound. Vomiting may cause pulmonary aspiration. Administer 2 mg of Atropine sulfate i.v. For children the dose the doses are 0.04 – 0.08 mg of Atropine sulfate/kg/body weight.. 2-PAM may be effective as an adjunct to Atropine.

5. FIRE FIGHTING MEASURES

FLAMMABILITY: Non-Flammable

Flash Point: 68.3°C



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Fire Fighting Procedure: Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Dike and collect fire fighting water to prevent environment damage and excessive waste runoff.

FIRE EXTINGUISHING MEDIA:

Carbon dioxide. Dry chemical. Foam. Water fog. Do not use water jet, as this may spread burning material

EXTINGUISHING MEDIA HAZARDS:

Oxides of Sulfur and phosphorous-containing compounds. Incomplete combustion may lead to formation of carbon monoxide (CO) and other asphyxiants

HAZARD CODE: 2W

PROTECTION OF FIRE FIGHTERS:

Wear protective fire fighting clothing and eye protection, and use positive pressure self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Avoid contact with skin and eyes.

Wear protective clothing and eye protection. Remove contaminated clothing, wash skin area with soap and water and launder clothing before reuse or dispose of properly. (Refer also to Sect. 8 : Exposure Controls and Personal Protection)

PRECAUTIONS FOR THE ENVIRONMENT:

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system. (Refer also to Sect. 13: Disposal Consideration)

CLEANUP METHODS:

Small spillage: absorb on inert absorbing material such as sand or clay. Shovel up into covered containers for disposal. Large spillage: Should be dammed-off and pumped into containers: soak up remainder with absorbent material and dispose of in accordance with local regulations. Contaminated earth can be treated with lime to hasten decomposition of the a.i. At pH 9, 50% will decompose in 12 days

7. HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN

HANDLING:

Avoid breathing vapor. Use with adequate ventilation. Wear chemical protective equipment when handling. (Good personal hygiene procedures must be practiced. Do not consume or store food in the work area.

Before eating, drinking or smoking and after work, wash hands and exposed skin using liquid detergent (Refer also to Sect. 8 : Exposure Controls and Personal Protection)



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STORAGE:

Place in a locked cool, dry and ventilated areas, store only in closed, properly-labeled containers, in area designed specifically for pesticides. Keep out of the reach of children and unauthorized persons. Keep away from excessive heat and open flame. Properly keep away from food, drink and animal feeding stuffs. Do not store with seeds, fertilizers or foodstuffs. Protect from direct sunlight and refrain from temperatures above 40°C.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTION:

RESPIRATORY PROTECTION:

For most conditions no respiratory protection should be needed. When large quantities of mist are generated or prolonged exposure is possible use a respirator with an organic vapor-removing cartridge.

HAND & SKIN PROTECTION:

Wear protective clothing chemically resistant to this material : long sleeved shirts and pants, hat , rubber boots with socks and chemical resistant gloves should be needed like neoprene, nitrile/butadiene rubber or polyvinyl chloride (PVC).

EYE/FACE PROTECTION:

Wear safety glasses with side shields to prevent vapors or mists from entering the eyes. If using a full face shield, always use safety glasses or goggles along with the face shield to ensure adequate protection of eyes.

GENERAL PRECAUTIONS:

Clothing must be laundered after each day's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid.
Odor:	Mercaptan
Ph	3.9 – 5 (5% solution)
Specific gravity:	1.07 g/ml
Vapour pressure:	> 0.25 mPa (dimethoate technical) at 25°C
Viscosity:	N/A
Flash point –	155°C
Solubility (at 25°C)	water – emulsifies

10. STABILITY AND REACTIVITY



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REACTIVITY: No special reactivities

STABILITY: Thermally stable if handled at typical use temperatures and in closed containers

INCOMPATIBLE MATERIALS: can corrode iron, steel and copper

HAZARDOUS POLYMERIZATION: Will not occur

THERMAL DECOMPOSITION: Incomplete combustion may lead to formation of CO and/or asphyxiants.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

ACUTE ORAL: LD₅₀ (rats) >550 mg/kg

EYE IRRITATION: Slightly irritant (rabbit)

INHALATION: LC₅₀ (rats) >5.2 mg/L (4 hr)

ACUTE DERMAL: LD₅₀ (rabbit) >2000 mg/kg

SKIN IRRITATION: (rabbit) slightly irritating

SKIN SENSITIZATION: (guinea pig) – not a sensitiser

12. ECOLOGICAL INFORMATION

TOXIC TO AQUATIC INVERTEBRATES. HIGHLY TOXIC TO INSECTS. HARMFUL TO BIRDS. TOXIC TO FISH, AQUATIC PLANTS, EARTHWORMS & SOIL MICROORGANISMS.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark

Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of wastes.

PERSISTENCE AND DEGRADIBILITY: Readily biodegradable. In water 58% within 28 days

Highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

13. DISPOSAL CONSIDERATION

Do not contaminate ponds, waterways or ditches with chemical or used container.

The preferred option is to send to local licensed disposals.



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Any disposal practice must be in compliance with all local and national laws and regulations.

14. TRANSPORT INFORMATION

ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC

IMDG Class 9

TRANSPORT HAZARD CLASS - 9

UN NUMBER - 3082

Hazchem Code 2W

Packing Group III

IMO (vessel) Environmentally hazardous substance , liquid, n.o.s.

MARINE POLLUTANT

IATA (air) Environmentally hazardous substance , liquid, n.o.s. MARINE POLLUTANT

15. REGULATORY INFORMATION

This product is registered under the PPIS registration:

Registration No. 285/ppis/1971

Approved users of this product are people who have been instructed with the product properties and risks, are familiar with the product label and behave accordingly.

16. OTHER INFORMATION

The information provided in this safety data sheet is correct to the best knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with other materials.

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