Material Safety Data Sheet

Pesticides Malathion (RXSOL-94-9402-250)

1. Product and Company Identifaction

Product Name	Pesticides Malathion
Part Number	RXSOL-94-9402-250

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Sikka, Kandla, Dahej , Hazira, JNPT, Goa, Mngalore, Cochin, Tuticorin,Chennai, Kakinada,Vizag, Paradip, Haldia, Kolkata,Fujairah

Phone	+91 22 27815540 / 27815542
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	Weight %
Malathion	121-75-5	1180g/L

3. Hazards Identification

HAZARD CLASSIFICATION	Xn- Harmful RISK PHRASES: R22 – Harmful if swallowed SAFETY PHRASES: S24– After contact with skin. National Poisons Information Centre 131 126.
RISK PHRASES	R22 – Harmful if swallowed
SAFETY PHRASES	S24– After contact with skin. National Poisons Information Centre 131 126.
GENERAL	No adverse health effects are expected when the product is used in accordance with label directions. If mishandled (excessive exposure) may cause organophosphorus cholinesterase inhibition. Poisoning symptoms include headaches, dizziness, nausea, diarrhoea, incoordination, muscle twitching, tremors, abdominal cramps, tightness in chest, sweating, blurred vision, salivation, excessive urination and convulsions. ACUTE
SWALLOWED	The acute oral toxicity is Moderate. Oral LD50 (rat) 2800mg/kg (Malathion). For product Oral LD50 (rat) 2947mg/kg
EYE	Moderate eye irritant.
SKIN	The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions. Dermal LD50 (rabbit) 4100mg/kg (Malathion). For product LD50 > 4315mg/kg.
INHALED	The acute inhalation toxicity is moderate. Excessive exposure to dust may be harmful. Prolonged exposure to the dust may cause eye and respiratory irritation, dizziness and headaches. Inhalation LD50 (rat) = 5.2 mg/m 3 (4 hours) (Malathion).
CHRONIC	Repeated exposure may cause cholinesterase inhibition. Avoid prolonged or repeated skin contact as the solvent in the product may cause dermatitis.

4. First Aid Measures

GENERAL	In every case of suspected poisoning contact a doctor or a Poisons Information Centre immediately.
SWALLOWED	Seek medical attention immediately. If more than 15 minutes from medical assistance, give one atropine tablet every 5 minutes until dryness of mouth occurs then seek medical attention immediately. NOTE: Do not give fluids/tablets if patient is unconscious or convulsing.
Eye Contact	Hold eyelids open and flush eyes with water for at least fifteen minutes. Seek medical attention immediately.
SKIN	Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least fifteen minutes. If symptoms of poisoning occur give atropine tablets as above and seek medical attention immediately.
INHALED	Immediately remove patient to fresh air. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary. If symptoms of poisoning occur, seek medical assistance immediately.
FIRST AID FACILITIES	Soap, water, Ipecac Syrup APF, Atropine tablets.
ADVICE TO DOCTOR	Malathion is a cholinesterase inhibitor. Preferred antidote: atropine by injection or atrovent/ipratropium by airway puff. This product contains petroleum type solvents and the benefits of induced vomiting must be weighed against possibility of chemical poisoning.

5. Fire-fighting Measures

Flammability	Flammable
Special Hazards from Substance	Reacts violently with water.
Extinguishing Media	Do NOT use water — use CO2, sand, or extinguishing powder.
Special Fire Fighting Procedures	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See Section 10 for decomposition products.

6. Accidental Release Measures

If Material is Released / Spilled	Use appropriate personal protective equipment. Avoid dust formation. Avoid breathing dust,vapors, mist, or gas. Isolate spill area and provide ventilation. Evacuate personnel to safe areas. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.
Environmental Precautions	Isolate runoff to prevent environmental pollution.

7. Handling and Storage

SPILLAGE	Wear appropriate clothing while cleaning up spill (see Personal Protection). Extinguish any ignition sources. Prevent entry into drainage systems, waterways, rivers, etc. Apply absorbent material such as sand, earth or attapulgite to contain the spill. Sweep up the material when absorption is complete. Wash contaminated surfaces with a mild bleach solution (sodium hypochlorite).
Storage Conditions.	Store closed in the original container, in a cool, well dry place out of direct sunlight and out of the reach of children. Do not store prepared spray. Only mix what is required.TRANSPORT Product is classified as a dangerous good in accordance with the EC Regulation.
DISPOSAL	Disposal of contaminated material must be done in accordance with State and/or Local regulations. Triple rinse containers with water and add rinsings to tank mix. Destroy empty containers by breaking, crushing or puncturing them. Dispose of the empty containers at a local authority landfill. Do not burn empty containers or product. Do not allow chemical containers, spray or washings to contaminate drains, sewers, streams, ponds or any waterway.
FIRE/EXPLOSION HAZARD	Hazchem: 2WE Malathion will decompose rapidly when heated to temperatures above 100 OC. Explosion may result under certain circumstances. If involved in a fire, volatile, toxic, malodorous and flammable compounds will be formed HAZARDOUS DECOMPOSITION PRODUCTS: If involved in a fire, thermal decomposition products may include dimethyl sulfide, sulphur dioxide, carbon monoxide, carbon dioxide, phosphorous pentoxide and nitrogen oxides. If store for long periods above 55 OC, toxic degradation products such as malaoxon and isomalathion may be formed.
FIRE FIGHTING EQUIPMENT:	Foam, carbon dioxide (CO2), or dry chemical extinguishers may be used. Run-off must be contained. Full personal protective equipment, including self contained breathing apparatus, is required.

8. Exposure controls and personal protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Eye Protection	Safety glasses
Protective Gloves	Compatible chemical-resistant gloves
Other Protective Clothing	Lab coat

Respiratory Equipment	NIOSH approved respirator, as conditions warrant
Work/Hygienic/Maintenance Practice	Do not take internally Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling. No data available.

9. Physical and chemical properties

Apperance and Odour	Straw to amber coloured liquid with a slightly aromatic odor.
Specific Gravity	1.23 g/ml
Bulk Density	1.23 kg/L
Vapor Pressure	3.4 x 10 -6 mm/hg @ 25oc (77o F)
Boilling Point	>300oF/>148.9oC.
Percent VolatileL	Not Established
Evaporation Rate	1

10. Stability and reactivity

Reactivity	No Data Available
Stability	Stable
Condition to Avoid	No Data Available
Incompatible Materials	Strong Oxidizing Agent
Hazardous Decomposition Products	Carbon Dioxide, Sulfer Oxides

11. Toxicological information

Toxicological Effects	Malathion - Toxicity Data: Oral LDLO (woman): 8 mL/kg; Oral LDLO (man): 471 mg/kg; Oral LD50 (rat): 290 mg/kg; Intraperitoneal LD50 (rat): 250 mg/kg; Oral LD50 (mouse): 190 mg/kg; Intraperitoneal LD50 (mouse): 193 mg/kg; Subcutaneous LD50 (mouse): 221 mg/kg;
Chronic Toxicological	Malathion - Investigated as an agricultural chemical, mutagen, reproductive effector, and tumorigen
Effect	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Ethanol RTECS Number: WM8400000

12. Ecological information

Toxicity	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution .
Ecological Information	Persistence and No data available
Bioaccumulative potential	No Data Available.
Mobility in Soil	No data available.
Results of PBT and vPvB assessment:	No data available
Other adverse effects	No data available

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposa	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company.

14. Transport information

ADR/RID

UN number	3082
UN proper shipping name	Environmentally hazardous substance liquid, (Malathion)
DANGEROUS GOODS CLASS	Class 9 Miscellaneous
Packing Group	III
Sub Classes	None Allocated

IMDG

UN number	3082
UN proper shipping name	Environmentally hazardous substance liquid, (Malathion)
DANGEROUS GOODS CLASS	Class 9 Miscellaneous
Packing Group	III
Sub Classes	None Allocated

IATA

UN number	3082
UN proper shipping name	Environmentally hazardous substance liquid, (Malathion)
DANGEROUS GOODS CLASS	Class 9 Miscellaneous
Packing Group	III
Sub Classes	None Allocated

15. Regulatory information

Addition Transport	Transport in accordance with local, state, and federal regulations.
Information	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.