

KOMBAT MALATHION

Version: 1.2

Revision Date: December 2016

**1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY UNDERTAKING:****PRODUCT INFORMATION**

Product Name : KOMBAT MALATHION

Design Code : ...

Registration No. : L8317, Act No. 36 of 1947

Use : Insecticide

Company : Kombat (Pty) Ltd
39 Dr. Gordon Road
Greytown
3250

Telephone : +27-33-417-1906/7

**Harmful****Dangerous for the environment****EMERGENCY TELEPHONE NUMBERS****SPILLAGES:**

Emergency telephone: +27-82-446-8946 (all hours)

POISONING INCIDENTS:

Poison Information Centre of the Western Cape: +27-861-555-777 (all hours)
Griffon Poison Information Centre +27-82-446-8946 (all hours)
UFS Pharmacology/Toxicology information centre: +27-82-491-0160

2. HAZARD IDENTIFICATION**WHO Class III CAUTION****Most important hazards:**

Poisonous by contact, inhalation and swallowing

Physical / chemical hazards:

Combustible / flammable

Human health hazards:

Harmful by inhalation and if swallowed.

Irritating to skin

Will cause dermatitis after prolonged skin contact.

Environmental hazards:

Very toxic to aquatic organisms. May be hazardous to the environment – special attention should be given to bees. Toxic to fish and wildlife.

KOMBAT MALATHION

Version: 1.2

Revision Date: December 2016



3. COMPOSITION / INFORMATION ON INGREDIENTS

Description: An emulsifiable contact and stomach poison for the control of insects as specified on the label

Information on hazardous ingredients:

Common Name	CAS No.	%	Symbol
Malathion	000121-75-57	50%	Xn
Aromatic /Aliphatic mixture	45.5%		

*Occupational Exposure limit(s), if available, are listed in section 8.

4. FIRST- AID MEASURES

Effects & symptoms:

Headache, dizziness, pupillary constriction, muscle cramps, excessive sweating, laboured breathing and unconsciousness. The symptoms of acute intoxication do not become manifest until before 30min to 1-2 hours.

Skin Contact:

Irritating to skin and prolonged exposure will cause dermatitis.

Inhalation:

Remove victim to fresh air. Keep victim at rest in the half-upright position. Immediately get medical attention.

Ingestion:

Wash out of mouth with water. If breathing is difficult: give oxygen.

If not breathing: apply artificial respiration. Immediately get medical attention

Skin contact:

Remove contaminated clothing. Wash off with plenty of water and soap. Get medical attention.

Eye contact:

Rise with plenty of water for at least 15 minutes. Remove contact lenses if possible. Immediately consult an eye specialist.

Note to Physician:

Antidote 1: Atropine sulfate.

Antidote 2: Obidoxime chloride or Pralidoxime (2-PAM).

Suggest serum and/or RBC cholinesterase determination.

If ingested perform gastric lavage and administer activated charcoal.



5. FIRE-FIGHTING MEASURES

Extinguishing Media:

For small fires: use water, foam, dry chemical or carbon dioxide (CO₂)

For large fires, water spray or alcohol resistant foam.

Special fire-fighting procedures:

Fight fires from a protected location. Dike fire control water for later disposal. Keep containers cool by spraying with water.

Hazardous thermal (de)composition products:

Methyl mercaptan dimethyl sulfide, CO, HS, SOX, POX, and Sulfides.

Protection of fire-fighters:

Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use appropriate protection. During cleansing activity shut off ignition sources.

Environmental precautions:

Dispose of this material and its container at hazardous or special waste collection point.

In accordance with national and regional regulations. If the product had contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.

Methods for cleaning up:

In the event of minor spillage: absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination. In the event of major spillage: collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal. Rinse spill area and tools with an 85% water, 10% bleach and 5% isopropyl alcohol solution.

7. HANDLING AND STORAGE

Handling:

Do not breathe fumes. Avoid contact with skin and eyes.

Storage:

Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Keep container dry. Keep away from strong bases. Keep away from sources of ignition – No smoking.

Packaging materials:

Suitable: Multi-layer high polyethylene extrusion blow containers.



8. EXPOSURE CONTROL / PERSONAL PROTECTION

Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational information:

Common name: Malathion or Mercaptothion

Personal protective equipment:

Respiratory system: During spray wear suitable respiratory equipment.

Skin and body: Wear suitable protective clothing

Hands: Wear suitable gloves

Eyes: Safety goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Color	: clear, Yellow
Odor	: Mercaptan
Melting point	: < - 40 °C (aromatic/aliphatic mixture)
Decomposition temperatures	: Above 150°C
Vapor Pressure	: 26 mmHg at a temperature of 30 °C (aromatic/aliphatic mixture)
Specific Gravity	: 1.007kg/l @ 20 °C (for formulation)
Solubility in water	: Emulsifiable in water
Flash point	: 9°C (closed cup) for solvent mixture
Flammable properties	: C2: Lower limit = 1.2% Upper limit = 7.0%

10. STABILITY AND REACTIVITY

Stability: Stable Can react with oxidizing materials or (H₂SO₄ + HNO₃), N₂O₄, AgClO₄

Conditions to avoid: Storage at 50 - 115°C leads to non-hazardous decomposition. Heating >150°C cause rapid decomposition. Reactivity with strong base may generate excessive heat

Materials to avoid: Strong oxidizing agents, strong alkali's.

Hazardous decomposition products: Methyl mercaptan dimethyl sulfide, CO, HS, SO_x, PO_x & S_x.

KOMBAT MALATHION

Version: 1.2

Revision Date: December 2016

**11. TRANSPORT INFORMATION****International transport regulations:**

UN Number : 3017

Land – Road/Railway

Proper shipping name : Organophosphorus pesticide, liquid, toxic, Flammable.

ADR/RID Class : 6.1

Packaging group : I-III

Inland waterways

Proper shipping name : Organophosphorus pesticide, liquid, toxic, Flammable.

Sea

Proper shipping name : Organophosphorus pesticide, liquid, toxic, Flammable,

IMDG Class : 6.1

IMDG Page Number : 6220, Marine pollutant

Packaging group : III

Medical First Aid Guide (MFAG) : 505

Emergency Schedules (EmS) : 6.1-0.1

Air

Proper shipping name : Organophosphorus pesticide, liquid, toxic, Flammable.

UN/ID Number : 3017

12. OTHER INFORMATION**Usage** : Insecticide**KOMBAT MALATHION is the property of KOMBAT (Pty) Ltd.****Read the label before use or buy.**

Disclaimer:

Read the label before use or buy.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors or omissions or the consequence thereof.

This document is intended only as a guide to the appropriate handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for the particular purpose.

KOMBAT (Pty) Ltd. make no representation or warranties, either express or implied, including without limitation any warranties of merchant ability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. According KOMBAT (Pty) Ltd will not be responsible for damages resulting from the use of or reliance upon this information.

KOMBAT MALATHION

Version: 1.2

Revision Date: December 2016

