



Member of the PLENNEGY GROUP

KOMBAT MALATHION

Version: 1.0

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Language: EN

According to the Globally Harmonised System of Classification and Labelling of Chemicals, version 9

Safety Data Sheet

section

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation : KOMBAT MALATHION

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Insecticide
Uses advised against : No data available.

1.3 Details of the supplier of the safety data sheet

Supplier : **Name:** Kombat (Pty) Ltd
Street: 39 Dr Gordon Street
Postal code/City: Greytown, 3250
Country: South Africa.
Telephone: +27 (0) 33 417 1906/7
Email: admin@kombat.co.za

1.4 Emergency Telephone Number

ZA: Griffon Poison Information Centre: +27 82 446 8946

Hazards identification

2.1 Classification of the substance or mixture

Hazards identification: The mixture is classified as:

H302	Acute oral tox. 4	Harmful if swallowed
H226	Flam. liq. 3	Flammable liquid and vapour
H317	Skin sens. 1	May cause an allergic skin reaction
H305	Asp. tox. 2	May be harmful if swallowed and enters airways
H410	Aquatic chronic 1	Very toxic to aquatic life with long lasting effects

2.2 Label elements

Labelling

Hazard pictograms



Signal word

WARNING

Hazard Statements

H302	Harmful if swallowed
H226	Flammable liquid and vapour
H317	May cause an allergic skin reaction
H305	May be harmful if swallowed and enters airways
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P264	Wash hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release into the environment.
P280	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER.
P302+352	IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P303+361	
+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].
P331	Do NOT induce vomiting.
P333+313	If skin irritation or rash occurs: Get medical advice.
P39	Collect spillage.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of content/container to suitable landfill in accordance with local regulations.

2.3 Other hazards

None.

section **3** **Composition/information on ingredients**

3.1 Mixtures

Substance		Concentration (%)	Specific concentration limits	Classification
MALATHION TECH (MERCAPTOTHION (ORGANOPHOSPHATE))				
CAS N°	121-75-5	C ≥ 50 %		H302 - Acute oral tox. 4 H317 - Skin sens. 1 H400 - Aquatic acute 1 H410 - Aquatic chronic 1
Phenyl sulphonate (3%) – 1. Benzenesulfonic acid, alkyl derivs., calcium salts				
CAS N°	1335202-81-7			H315 - Skin irrit. 2 H318 - Eye dam. 1
Phenyl sulphonate – 2. Iso-butanol				
CAS N°	78-83-1			H226 - Flam. liq. 3 H315 - Skin irrit. 2 H318 - Eye dam. 1 H335 - STOT SE 3 H336 - STOT SE 3
Emulsogen EL 400				
CAS N°	61791-12-6	C = 3.0 %		Not classified.
Fluidar 100:				
CAS N°	64742-95-6	C ≥ 40 %		H304 - Asp. tox. 1 H340 - Muta. 1B H350 - Carc. 1B

3.2 Remark

Full text of H- phrases: see section 16.

section **4** **First aid measures**

4.1 Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice. Call a POISON CENTER/doctor if you feel unwell.

Following inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

Following skin contact: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.

Following eye contact:

In case of eye irritation consult an ophthalmologist.

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

IF SWALLOWED: Rinse mouth.



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Do NOT induce vomiting. Seek medical attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Self-protection of the first aider:

No special measures are necessary.

4.2 Most important symptoms and effects, both acute and delayed

ACUTE: Symptoms of acute poisoning develop during exposure or within 12 hours (usually within four hours) of contact. Headache, dizziness, weakness, inco-ordination, muscle twitching, tremor, nausea, abdominal cramps, diarrhoea, and sweating are common early symptoms.

Blurred or dark vision, confusion, tightness in the chest, wheezing, productive cough, and pulmonary oedema may occur.

SEVERE: Incontinence, unconsciousness, and convulsions. Slow heartbeat, salivation and tearing are common.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Treat symptomatically. Product may inhibit Acetyl Cholinesterase activity. Atropine is antidotal. Pralidoxime chloride (2-PAM; Protopam chloride) may be effective as an adjunct to Atropine. It does not reactivate the cholinesterase enzyme.

Administer atropine sulphate intravenously, or intramuscularly, if iv injection is not possible.

section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam.
Extinguishing powder.
Carbon dioxide (CO₂).
Sand.

Unsuitable extinguishing media:

Strong water jet.

5.2 Special hazards arising from the substance or mixture

Combustible. Formulation contains organic solvent that is slightly flammable when exposed to heat or open flame. Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

6.2 Environmental precautions

Ensure that waste is collected and contained.
Contain leaks or spills within cabinets with removable trays.

6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.
Collect in closed and suitable containers for disposal.
Absorb with liquid-binding material (e.g., sand, diatomaceous earth, acid- or universal binding agents).
Wipe up with absorbent material (e.g., cloth, fleece).

6.4 Reference to other sections

Safe handling: see section 7.
Disposal: see section 13.
Personal protection equipment: see section 8.

6.5 Additional information

Not available

section 7 Handling and Storage

7.1 Precautions for safe handling

PROTECTIVE MEASURES:

No special measures are necessary.

Advice on general occupational hygiene:

Wash hands before breaks and after work.
Remove contaminated, saturated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.
Keep container in upright position in order to prevent leakage.

Advice on joint storage:

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

section 8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

Does not contain substances above concentration limits fixing an occupational exposure limit.

Biological limit values:

Not available

Exposure limits at intended use:

Not available

8.2 Exposure controls

Appropriate engineering controls:

See section 7. No additional measures necessary.



Personal protection equipment:

Eye/face protection

: **Suitable eye protection:**
Wear eye protection equipment.

Skin protection

: **Hand protection:**
Suitable gloves type:
Wear protective gloves.

Body protection:

Suitable protective clothing:
Lab coat.

Respiratory protection

: **Suitable respiratory protection apparatus:**
Wear a dust mask. Avoid inhalation of product.

Environmental exposure controls:

No special measures are necessary.

section 9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Clear to yellow.
Odour	: Mercaptan odour.
Odour threshold	: Not applicable.
pH	: Not applicable.
Melting/Freezing point	: < - 40 °C (for aromatic /aliphatic mixture)
Boiling point	: (@760 mm Hg): Approximately 113°C (for aromatic /aliphatic mixture)
Flash point	: 9°C (closed cup) for solvent mixture
Evaporation rate	: Not applicable.



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Flammability	:	Upper: 7% (both for solvent mixture)
Lower limit of flammability or explosive	:	Lower: 1.2%
Vapour pressure	:	(@ 30°C) 36 mmHg (for aromatic /aliphatic mixture)
Vapour density	:	(air = 1) 1.3(for aromatic /aliphatic mixture)
Relative density	:	Not available.
Water solubility	:	Emulsifies in water OSHA PEL: 10 mg/m ³ ACGIH TLV: 10 mg/m ³ NTP/IARC/OSHA
Partition coefficient, n-octanol/water (log Pow)	:	Not applicable.
Auto-inflammability temperature	:	500°C (for solvent mixture)
Decomposition temperature	:	Not applicable.
Viscosity	:	Not applicable.
Explosive properties	:	Not applicable.
Oxidising properties	:	Not applicable.
Solubility in other Solvents	:	Not available.
Log Kow	:	Not applicable.

section 10 Stability and Reactivity

10.1 Reactivity

The product is stable when stored at normal ambient temperatures.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous reactions

The product is stable when stored at normal ambient temperatures.

10.4 Conditions to avoid

Store in a cool, dry storage. Can react with oxidizing materials OR (H₂SO₄ + HNO₃) and N₂O₄, AgCl O₄ Storage at 50 –115 °C leads to non – hazardous decomposition. Heating at > 150 °C cause rapid decomposition. Reactivity with strong base may generate excessive heat.

10.5 Incompatible materials

Strong alkali's and strong oxidizers.

10.6 Hazardous decomposition products

The product is stable when stored at normal ambient temperatures. Thermal decomposition may produce hydrogen sulfide, methyl mercaptan dimethyl sulfide, carbon oxide, sulfur oxide, phosphorous oxide.

10.7 Additional information

Not available.

section 11 Toxicological information

11.1 Acute oral toxicity

Mixture: The product has LD 50 value of >1 224.33 mg/kg. Acute Tox 4. ORAL – H302 – Harmful if swallowed.

11.2 Acute dermal toxicity

Mixture: The product is not classified.

11.3 Acute inhalation toxicity

Mixture: The product is not classified.

11.4 Skin corrosion/irritation

Mixture:
The product is not classified.

11.5 Serious eye damage/irritation

Mixture:
The product is not classified.

11.6 Skin sensitisation

Mixture:
The product is classified as Skin Sens 1. – H317 – May cause an allergic skin reaction.

11.7 Specific target organ toxicity (repeated exposure)

Mixture:
The product is not classified.

11.8 Specific target organ toxicity (single exposure)

Mixture:
The product is not classified.

11.9 Carcinogenicity

Mixture:
The product is not classified.

11.10 Reproductive toxicity

Mixture:
The product is not classified.

11.11 Germ cell mutagenicity

Mixture:
The product is not classified.

11.12 Sensitisation to the respiratory tract

Mixture:
The product is not classified.

11.13 Additional information

Aspiration Tox 2. H305 - May be harmful if swallowed and enters airways.

section 12 Ecological information

12.1 Toxicity

Mixture: The mixture is classified as Aquatic Chronic 1 H410 – Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Mixture: The product has not been tested.

12.3 Bioaccumulative potential

Mixture: The product has not been tested.

12.4 Mobility in soil

Mixture: The product has not been tested.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Additional ecotoxicological information

Not available.

section 13 Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal:

Waste treatment options:

Appropriate disposal/Product: Dispose of waste according to applicable legislation.

Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.





Packing which cannot be properly cleaned must be disposed of.

Dispose of waste according to applicable legislation.

Remark:

For recycling, contact manufacturer.

section 14 Transport information

		Land transport (ADR/RID):	Inland waterway transport (ADN):	Sea transport (IMDG):	Air transport (ICAO-TI/IATA- DGR):
14.1	UN number:	1993	1993	1993	1993
14.2	UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
14.3	Transport hazard class(es):				
	Class or Division:	3	3	3	3
	Hazard label(s):				
14.4	Packing group:	III	III	III	III

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

N/A

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N/A

section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This SDS has been established in accordance with GHS regulation.

15.2 Chemical Safety Assessment

Not available.

section 16 Other information

16.1 Indication of changes

Not applicable (first edition of the MSDS).

16.2 Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

GHS: Globally Harmonised System of Classification and Labelling of Chemicals.

16.3 Key literature references and sources for data

No data available.

16.4 The classification of the mixture is in accordance with the evaluation method described in HazCom 2012

The classification of the mixture is in accordance with the evaluation method described in the GHS.

16.5 The classification of the mixture is in accordance with the evaluation method described in the GHS

H302	Acute oral tox. 4	Harmful if swallowed
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16.6 Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

16.7 Additional information

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The information given in this Safety Data Sheet is based on our present knowledge and on GHS guidelines rev 9. and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non-identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.