



IMTRADE

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MATERIAL SAFETY DATA SHEET

ENVIROFUME

Aqueous Solution

Use of the substance: Agrochemical (soil disinfectant), biocide.

1. **PRODUCT: POTASSIUM MONOMETHYLDITHIOCARBAMATE**

COMPANY DETAILS:

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2. **STATEMENT OF HAZARDOUS NATURE**

Hazardous according to criteria of Worksafe Australia.

- R 20: Harmful by inhalation
- R 22: Harmful if swallowed
- R 31: Contact with acids liberates toxic gas.
- R 34: Causes burns.
- R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects
In the aquatic environment.
- S1/2: Keep locked away and out of reach of children.
- S 23: Do not breath spray.
- S 36/37: Wear suitable protective clothing and gloves.
- S 38: In case of insufficient ventilation, wear suitable respiratory equipment.
- S 45: In case if accident or if you feel unwell, seek medical advice immediately
(show the label where possible).
- S 60: This material and/or its container must be disposed of as a hazardous
Waste.

S61: Avoid release to the environment. Refer to special instructions. Safety Data sheets.

Xn : harmful

i. H₂O q.s. 1 L

CAS: 137-41-7

EINECS: 205-292-5

IDENTIFICATION:

Product Name:	Metham Potassium Aqueous Solution
Other Names:	Envirofume
UN Number:	3267
Dangerous Goods Class and	8
Subsidiary Risk:	N/A
Hazchem Code:	2X
Poisons Schedule Number:	
Proper Shipping Name:	Potassium Methylthiocarbamate
Packaging Group:	III
Chemical Family:	

Physical Description/Properties:

Appearance:	Liquid
Colour:	Yellow to Brown
Odour:	Perceptible odour
Viscosity:	3.7 cP@20C (690 g/l solution)
Boiling point/interval:	97-102C
Flash Point:	>66C
Explosive properties:	Non explosive
Vapour pressure:	23,3 hPa
Partition coefficient:	-2,15 (pH 9) -2,05 (pH 7)
PH:	7.5-10.5
Solubility:	Miscible with water
Flammability:	Not flammable
Oxidising properties:	No oxidizing properties
Evaporation rate:	Not applicable.
Freezing point/interval:	-5C – 0C
Density:	1.28 g/ml (690g/l solution)

Stability and reactivity:

Materials to avoid;	Decomposes slowly in presence of acids. Corrosive to Cu, Zn, etc.
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3. **HAZARDS IDENTIFICATION**

Harmful by inhalation and if swallowed.
Consumption of alcohol increases toxic effects
Toxic to aquatic organisms

HEALTH HAZARD INFORMATION;

4. ***FIRST AID MEASURES***

Inhalation:

Remove immediately from exposure.
Remove patient to fresh air.
If breathing is difficult give oxygen or apply artificial respiration.
Seek medical treatment when anyone has symptoms apparently due to inhalation.

Skin:

Take off immediately all contaminated clothing.
Wash thoroughly with soap and water.
If irritation persists, get medical attention.

Eyes:

Flush immediately with plenty of water for at least 15 minutes.
Get medical attention at once.
Seek medical treatment when anyone shows symptoms apparently due to contact with eyes.

Ingestion:

Give large quantities of water to drink.
Do not induce vomiting.
No specific antidote.
Treat symptomatically.

5. ***FIRE FIGHTING MEASURES***

Suitable extinguishing media:- Carbon dioxide, dry chemicals, waterspray, alcohol resistant fire fighting foam.

Unsuitable extinguishing media:- A bound waterjet.

Exposure Hazard:- Combustible liquid at high temperature.

Fire or heating to decomposition can cause toxic vapours
(nitrogen oxides, carbon oxides and sulphur oxides)

Fire-fighters:- Wear self-contained breathing apparatus

6. ***ACCIDENTAL RELEASE MEASURES***

Avoid contact with skin, eyes, clothing.
Keep all non-essential personnel away from area.
Keep upwind

7. ***PRECAUTIONS WITH RESPECT TO THE ENVIRONMENT***

Prevent contamination of soil, drains and surface water.

Contain leaking liquid with sands, earth or absorbent material for organic liquids.
Small spillage: flush area with water if sewers are linked with an appropriate sewerage treatment plant.

8. ***EXPOSURE CONTROLS / PERSONAL PROTECTION***

Exposure limit values: No special information. Local exhaust is recommended.

Individual protection – eyes: Wear safety goggles. Wear face protection.

Individual protection – hands: Wear neoprene gloves. Individual protection is to be defined, depending on the concentration and quantity of the product, as well as the working place. Verify together with the supplier if the protection level is adequate for the specific use.

9. ***CLEANING UP SPILLAGE:***

Contain leaking liquid with absorbing materials or flush area with water if sewers are linked with an appropriate sewage treatment plant or contain with sand or earth and clean up according to local regulations.

Absorb contaminated water in earth or sand for later disposal.

10. ***STABILITY AND REACTIVITY***

Decomposes slowly in presence of acids

Corrosive to Cu, Zn, etc.

11. ***TOXICOLOGICAL INFORMATION***

Typical values: Metham Potassium aqueous solution (690 g/l)

Acute oral toxicity LD₅₀ (rat) 1000 mg/kg

Acute dermal toxicity LD₅₀ (rat) > 2000 mg/kg

Acute inhalation toxicity LC₅₀ (rat) 3.04 mg/l (a.i.)(4h)[1.98 mg/l(1h)-methyl Isothiocyanate]

No skin sensitization on guinea pigs

Not irritating to eyes

Corrosive for skin

12. ***ECOLOGICAL INFORMATION (*)***

EC50 daphnia magna (48h.): 1-10 mg/l

LC50 fish (96h): 0,5-100 mg/l (*)

This material has a low potential to bioaccumulate in the aquatic species

Mobility:- MITC to volatile.

Persistence and degradability:- Readily biodegradable in the aquatic environment.

Bioaccumulative potential:- This material has a low potential to bioaccumulate in the aquatic species.

13. **DISPOSAL CONSIDERATIONS**
This material and/or its container must be disposed of as hazardous waste. Dispose of according to mentioned directive and national legislation.

SAFE HANDLING INFORMATION:

STORAGE AND HANDLING:

Precautions:

Store and handle in accordance with all current regulations and standards.

Keep in the original container in a cool well ventilated place

Do not store above 35c.

Handle in accordance with good industrial hygienic and safety procedures.

Avoid eye and skin contact.

Avoid inhalation of aerosol or vapour.

Have eye bath immediately available at any location were eye contact can occur.

Provide an emergency shower in the immediate work area.

14. **TRANSPORT INFORMATION:**

Classified as a Dangerous Goods by the Australian Code of the Transport of Dangerous Goods by Road and Rail.

UN: 3267

Class: 8

Subsidiary Risk: Not applicable

Hazchem Code: 2X

Correct shipping name: Metham Potassium aqueous solution

15. **REGULATORY INFORMATION**

Preparation regulated - EEC 88/379

R 21/22 : Harmful in contact with skin and if swallowed.

R 31 : contact with acids liberates toxic gas.

R 41 : risk of serious damage to eyes.

S(2) : keep out of reach of children

S 26 : in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 : Wear suitable protective clothing, gloves, and eye/face protection.

Xn : harmful

EINECS 205-292-5

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with the other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.