

METAM 510
C0296-C0075-UK


C : Corrosive



N : Dangerous for the environment

1. Identification of the product and the company

Name : **METAM 510.**
Chemical description active ingredient(s) : Metam sodium : Methylthiocarbamic sodium salt (IUPAC)
Chemical formula : C₂ H₄ N Na S₂
Chemical family : Dithiocarbamate
GCPF code : SL (Soluble concentrate)
Product identification : Liquid.
Company identification : CERTIS UK
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 Amesbury Wiltshire SP4 7RX United Kingdom

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 Fax +44(0)1980 626555
 E-mail: certis@certiseurope.co.uk

Use : Agriculture (Soil disinfectant)
Anti-poison center - Tel. : For advice on medical emergencies, fires, spillages or chemical hazards ONLY -
 phone +44(0)870 190 6777.
 For further advice for medical professionals - The National Poisons Information
 Service: Tel: +44(0)870 600 6266 (UK only) or Dublin Tel: 00353 1379 964/379966.

 For further advice for veterinary surgeons: +44(0)20 7635 9195.

Print date : 17 / 1 / 2011

2. Hazards identification

Physical/chemical hazards : Reacts violently with acids.
Human health hazards : Harmful by inhalation and if swallowed. Contact with acids liberates toxic gas.
 Causes burns. May cause sensitization by skin contact.
 Follow all precautions and instructions on the label to prevent danger to man and the environment.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Adverse human health effects : In combination with alcohol the harmful effect is enhanced.

3. Information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance/preparation : Preparation
Other information : See chapter 16 for full text of R phrases
Composition : Below mentioned are the classified components in the formulation as well as the active ingredient(s).

Substance name	Value(s)	CAS nr	EINECS nr	EC index	Classification
Metam-sodium	310 - 510 G/L	137-42-8	205-293-0	006-013-00-8	----- Xn: R20 R31 C: R34 R43 N: R50-53

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METAM 510**C0296-C0075-UK****4. First aid measures****Effects and symptoms**

- Inhalation** : Vapour or mist inhalation : bronchitis.
- Ingestion** : Gastrointestinal disease. Drowsiness. Respiratory troubles. Shock.
- Skin contact** : Redness. Corrosive.
- Eye contact** : Risk of serious damage to eyes. Redness. Flood of tears.
- First-aid measures**
- First aid general** : In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If you feel unwell seek medical advice (show the label where possible).
- Inhalation** : If not breathing, give artificial respiration, preferably mouth to mouth. Move the patient to fresh air. Allow the victim to rest. If breathing is difficult, give oxygen. When unconscious: Place the victim in the recovery position. Immediately get medical attention.
- Ingestion** : Wash out mouth with plenty of water. Drink plenty of water. Do not induce vomiting. Immediately get medical attention.
- Skin contact** : Remove contaminated clothing. Rinse immediately with plenty of water. Wash skin thoroughly with water and soap. Obtain medical attention when necessary.
- Eye contact** : Rinse immediately with plenty of water. After 1 - 2 initial minutes remove contact lenses if present (if easily possible) Rinse again with plenty of water. Continue to rinse with the eyelid wide open for at least 15 minutes. Seek medical attention.
- Protection of first aiders** : Avoid exposure. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
- Note to physician** : No specific antidote known. Treat symptomatically.

5. Fire-fighting measures

- Flammable class** : This product is not combustible.
- Extinguishing media** : Dry chemical powder. Alcohol resistant foam. Carbon dioxide. Water.
- Unsuitable extinguishing media** : Jet of water.
- Hazardous thermal (de)composition products** : Burning may produce: toxic vapours/gases.
See also Heading 10 (Stability and reactivity)
- Special procedures** : Use water spray/fog for cooling of containers. Do not discharge extinguishing waters into the environment.
Exercise caution when fighting any chemical fire.
- Protection of fire fighters** : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection. (Minimal B3, P3 filter)
When necessary: self-contained breathing apparatus with full face shield. Fight fire from a safe distance and protected location.

6. Accidental release measures

- Personal precautions** : Evacuate room. Keep public away from danger area. Contact an expert immediately. Provide adequate ventilation. Wear suitable protective clothing, gloves, boots, eye/face protection and respiratory protection. (Minimal B3, P3 filter)
- Environmental precautions** : Prevent dispersion. Collect spilled material. Clean the polluted area with water. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Make provisions to collect extinguishing water after fires.
- Methods for cleaning up** : Prevent dispersion. Absorb remainder in sand or inert material. Collect spilled material in sealable containers. Remove as chemical waste, according to national or local legislation.

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METAM 510**C0296-C0075-UK****6. Accidental release measures (continued)**

After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. Remove as chemical waste, according to national or local legislation.

7. Handling and storage

General Handling : **Read label before use.**
: Do not breath spray/vapour. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Wear suitable protective clothing, gloves, eye/face protection and respiratory protection. (Minimal B3, P3 filter) Neoprene boots. Keep away from acids, Provide adequate ventilation. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Wash hands and face before eating, drinking or smoking. Keep away from heat and direct sunlight.

Storage : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep at temperature not exceeding 35 °C. Store in a frost-free, dry, cool, well-ventilated area. According to national or local legislation.

Packaging material : Use original packaging.
Packaging must not be reused.

Storage away from : Acids. Metals.

8. Exposure controls / personal protection

Engineering measures : Provide adequate ventilation.

Hygiene measures : When using, do not eat, drink or smoke. Avoid contact with eyes, skin and clothes. Wash hands and face with soap and water before the break. Shower after work. Wear clean working clothes every day.

Occupational Exposure Limits : No occupational exposures limits have been established.

Personal protection

- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. (Minimal B3, P3 filter)
Only approved supplied air or self-contained breathing apparatus operated in positive pressure mode are satisfactory, if exposure can exceed the exposure limit value.
- **Skin protection** : Wear suitable protective clothing. Neoprene boots.
- **Hand protection** : Rubber gloves.
- **Eye protection** : Wear safety glasses with side guards or face shield.
- **Ingestion** : When using, do not eat, drink or smoke.

9. Physical and chemical properties

Physical state : Liquid.

Colour : Yellow brown

Odour : Unpleasant.

pH value : 7.5 - 10.5

Density [kg/mE3] : 1150 - 1210

Solubility in water : Miscible

Self-ignition [°C] : No data available.

Flash point [°C] : > 66

Flammability : Not flammable.

Oxidising properties : Not applicable.

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METAM 510**C0296-C0075-UK****9. Physical and chemical properties (continued)**

Melting point [°C]	: -5 - 0
Initial boiling point [°C]	: 97
Final boiling point [°C]	: 102
Vapour pressure	: 0.0575 Pa @ 20°C (Active ingredient)
Surface tension	: No data available.
Viscosity	: 3.54 cSt @ 20°C 2.03 cSt @ 40°C
Henry Constant	: No data available.
Explosion limits	: No explosive properties.
Log P octanol / water at 20°C	: No data available.

10. Stability and reactivity

Stability	: Stable under normal circumstances. Reacts violently with acids.
Hazardous decomposition products	: Contact with acids liberates toxic gas. In soil conversion product is methyl isothiocyanate. Burning may produce e.g.: Carbon monoxide Sulfur compounds. Hydrocarbons Nitrogen oxides.
Hazardous reactions	: Will not occur.
Materials to avoid	: Acids. May be corrosive to some metals.
Conditions to avoid	: Heat and direct sunlight.
Hazardous polymerization	: Will not occur.

11. Toxicological information

Symptoms	: Human experience causes severe burns, headache, nausea, respiratory disorder, eye irritation.
Rat oral LD50 [mg/kg]	: 896
Dermal (rat) LD50 [mg/kg]	: 1250
Rat inhalation LC50 [mg/l/4h]	: 2.54
Eye irritation	: Non irritating (rabbit)
Skin irritation	: Corrosive (rabbit)
Sensitization	: This material was found to be sensitizing in guinea pigs.
Carcinogenicity	: Carcinogenic tests in animals were negative.
Mutagenicity	: Mutagenic tests in animals were negative.
Reproductive toxicity	: No reprotoxic effects at animal experiences.

12. Ecological information

On product	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
LC50-96 Hour - fish [mg/l]	: 0.1 - 100
EC50-48H-Daphnia Magna mg/l	: 1 - 10
IC50-72H-Algae mg/l	: 0.56
Bioaccumulation	: BCF fish: Low biological accumulation
Biodegradation	: Readily biodegradable. (Active ingredient)
Log Kow	: < 1 (Active ingredient)

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METAM 510**C0296-C0075-UK****13. Disposal considerations**

- Waste-disposal procedures** : Prevent dispersion. Remove waste product to a suitable incinerator. According to national or local legislation.
- Waste of residues** : Keep waste separate. Remove as chemical waste, according to national or local legislation.
- Contaminated packaging** : Keep waste packaging separate. Remove as chemical waste, according to national or local legislation.
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14. Transport information

- UN No.** : 3267
- Land transport (ADR/RID)**
- Class** : 8
- Packing group** : III
- Shipping name** : Corrosive liquid, basic, organic, n.o.s. (metam sodium)
- Sea transport (IMO)**
- IMDG code** : 8
- Packing group** : III
- General information** : Marine pollutant
- Proper technical name** : Corrosive liquid, basic, organic, n.o.s. (metam-sodium)
- Air transport**
- ICAO/IATA** : 8
- IATA Packing group** : III
- Proper shipping name** : Corrosive liquid, basic, organic, n.o.s. (metam sodium)

15. Regulatory information

- EU Regulations**
- EU Classification**
(67/548/EEC-88/379/EEC)
- Hazard symbol(s)** : C Corrosive , N Dangerous for the environment.
- Warning phrases**
- R Phrase(s)** : R20/22 : Harmful by inhalation and if swallowed.
R31 : Contact with acids liberates toxic gas.
R34 : Causes burns.
R43 : May cause sensitization by skin contact.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases**
- S Phrase(s)** : S1/2 : Keep locked up and out of reach of children.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
S60 : This material and its container must be disposed of as hazardous waste.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.
- Symbol(s)** : C Corrosive , N Dangerous for the environment.

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METAM 510**C0296-C0075-UK****15. Regulatory information (continued)**

Additional information : Follow all precautions and instructions on the label to prevent danger to man and the environment.

16. Other information

Certis code : WA

Explanation of R-phrases used in section 3 : R20 : Harmful by inhalation.
R22 : Harmful if swallowed.
R31 : Contact with acids liberates toxic gas.
R34 : Causes burns.
R43 : May cause sensitization by skin contact.
R50 : Very toxic to aquatic organisms.
R53 : May cause long-term adverse effects in the aquatic environment.

Sources of key data used : - Material Safety Data Sheet(s) of the producer.
- Classification Database ECB
- The Pesticide Manual, 13th ed (ISBN 1 901396 12 6)
- Certis Europe Expert Team (CEET)

Further information : Revision - See : *

Trade name(s) : METAM 510

The contents and format of this MSDS are in accordance with EC Commission Directive 93/112/EEC, 99/45/EC, 2001/58/EC and Reach Regulation 1907/2006.

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