

FARM-AG INTERNATIONAL (Pty) Ltd

P.O. Box 1523, Durban 4000

Head Office : 61 Marshall Dr., Old Mill Industrial Park, Mount Edgecombe **South Africa**

Registration Number: 2005/011761/07

Tel + 27 31 003 3486 • Fax + 27 31 502 5825

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	FOXAMYL 10 G
Creation Date:	January 2014
Revision Date:	August 2017
Active ingredient	Oxamyl
Chemical Name	<i>N,N</i> -dimethyl-2-methylcarbamoyloxyimino-2-(methylthio)acetamide (IUPAC)
CAS No.	23135-22-0
Chemical Family	oxime carbamate
Chemical Formula	C ₇ H ₁₃ N ₃ O ₃
UN no.	2991
Use	Contact and systemic insecticide, acaricide and nematicide, absorbed by foliage and roots, with translocation.
24 Hr Emergency Number:	082 771 2712
In case of poisoning:	
Poison Information Centre:	082 446 8946
Tygerberg Hospital:	(021) 931 6129
Poison Emergency Enquiries	(021) 689 5227
In case of Spillage:	
HAZMAT:	0800 147 112

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazards components:	Oxamyl, methanol
SYMBOLS:	T+, F, N, Xi
RISK-PHRASE(S):	R10, R21, R26/28, R 51/53

SECTION 3 - HAZARD IDENTIFICATION**Main hazard:**

Toxic by inhalation and if swallowed. Toxic if swallowed. Harmful when in contact with skin. Flammable
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Symptoms of poisoning:

Symptoms may include nausea, vomiting, diarrhoea, abdominal cramps, headache, vertigo, tightness of the chest, anxiety, ocular pain, ciliary muscle spasm, blurred vision, small pupils, or mydriasis, lacrimation, salivation, sweating, and confusion. In severe cases, there may be bradycardia, hypotension, pulmonary oedema, convulsions, coma, and death from respiratory failure or cardiac arrest.

Eye contact: See section 11**Skin contact:** See section 11**Ingestion:** See section 11**Inhalation:** See section 11**Carcinogenicity:** See section 11.**Mutagenicity:** See section 11.**Reproductive/teratogenicity** See section 11.**SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS****Inhalation:**

Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration or administer oxygen. Qualified person must perform administration of oxygen. Keep person warm and at rest. Get medical attention immediately.

Skin contact:

Remove contaminated clothing immediately and rinse contaminated body area thoroughly with plenty of soap and cold water, followed by alcohol. Do not rub skin. Emergency personnel should wear gloves and avoid contamination.

Eye contact:

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Flush contamination out of eyes with clean lukewarm, gently flowing water for at least 20 minutes, while holding eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.

Ingestion:

If swallowed, rinse mouth thoroughly with water and immediately get medical attention. If person is alert and respiration is not depressed, give syrup of Ipecac followed by water or activated charcoal if instructed. If vomiting occurs, keep head below hips to prevent aspiration. Establish and maintain airway.

Never give anything by mouth to an unconscious person. **Take the patient to a physician immediately.**

Note to physician:

Oxamyl is a carbamate compound, which inhibits cholinesterase. Systemic effects may begin within a few minutes or several hours of exposure. If consciousness level declines or vomiting has not occurred in 15 minutes empty stomach by gastric lavage. Avoid aminoglycosides and succinylcholine. Phenothiazines, reserpine, theophylline, morphine, Pralidoxime (2-PAM, Protopam) and other oximes are contra-indicated.

Antidote: Administer atropine sulphate intravenously or intramuscularly. In moderately to severe poisoning administer atropine sulphate, 0.4 to 2.0 mg repeated every 15 minutes, until atropinization is achieved (dry, flushed skin, dry mouth and tachycardia). Maintain atropinization by repeated doses for 2 to 12 hours, or longer, depending on the severity of poisoning.

SECTION 5 - FIRE-FIGHTING MEASURES

Fire and explosion hazard:

Flammable.

Extinguishing agents:

Extinguish fires with carbon dioxide, dry chemical or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Minimise the use of water to prevent environmental contamination. Do not use high volume water jet due to contamination risk.

Hazardous products of combustion:

Heating can release vapours that can be ignited. Hazardous decomposition products: carbon oxides, nitrogen oxides. Vapours may form explosive mixture with air.

Fire fighting:

Remove spectators from surrounding area. Remove container from fire area if possible. Do not extinguish fire until flow of product has been stopped. Fight fire from a maximum distance or use unmanned hose holders or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent. Water can be used to cool unaffected containers. Avoid inhaling hazardous vapours. Keep upwind.

Personal protective equipment:

Fire may produce irritating or poisonous vapours (toxic oxides of nitrogen and carbon and corrosive fumes of chlorides), mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

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

For personal protection see Section 8.

Environmental precautions:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill:

Do not touch or walk through spilled material. Stop leak if possible without risk. Avoid runoff of product into sewers, water systems, basements or confined areas as it may cause fire/explosion. Thoroughly wash body areas, which come into contact with the product.

For **small liquid spills**, neutralise with sodium carbonate and allow standing for 4 hours. Soak up or cover with non combustible.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling:

Harmful by inhalation or if swallowed. Avoid contact with eyes and skin, and inhalation of vapour and spray. Use with adequate ventilation. Do not spray near open flame or sources of ignition. Do not smoke. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the insecticide gets inside.

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Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage:

To maintain the quality, store in covered warehouse at temperatures between 0o and 40o C. Store in original containers tightly closed, in a cool, dry, well-ventilated place. Store away from food, drink, animal feeding stuffs and sources of ignition. Keep away from children and unauthorised adults. Adhere to local regulations.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respirator:

An approved respirator with combination filter for vapour/particulate, suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid granular
Colour:	Violet
Odour:	Slight solvent
Solubility in water:	229 g/l at 25°C
Flash point:	Not applicable
pH:	6.8 at 100 g/l (24°C)
Bulk density:	740 kg/m ³

SECTION 10 - STABILITY AND REACTIVITY**Stability:**

No decomposition if stored and applied as directed.

Conditions and Materials to Avoid:

Heating can release vapours that can be ignited.

Hazardous decomposition products:

Carbon oxides, nitrogen oxides. Vapours may form explosive mixture with air.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral LD50:	male 43 mg/kg in rats. LD50/ rat female: 34 mg/kg
Acute dermal LD50:	>5027 mg/kg in rabbits.
Inhalation:	LC50/ 4 h / rat 0.68 mg/l air.
Skin irritation:	No skin irritation (rabbit)
Eye irritation:	No eye irritation
Dermal sensitisation:	No sensitisation reactions observed on laboratory animals.
Further information:	Skin contact or inhalation of solvents contained in this product may cause irritation of skin, eyes and mucous membranes.

SECTION 12 - ECOLOGICAL INFORMATION**Bioaccumulation:**

log POW = -0.48

Persistence and degradability: according to the results of tests of biodegradability, this product is not readily

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biodegradable.

ECOTOXICOLOGY (based on technical):**Birds:**LC₅₀ (8 day diet) bobwhite quail 340 ppmLC₅₀ (5 day diet) mallard ducks 766 ppm

bobwhite quail > 5620 mg/kg diet

Fish: LC₅₀ (96 hours, 90% a.i.): rainbow trout 4.2 mg/l

bluegill sunfish 5.6 mg/l

Daphnia: LC₅₀ (48 hours, 97% a.i.): 0.319 mg/l**Algae:** EC₅₀ (72 hours): 3.3 mg/l**Bees:** LD₅₀ (oral) 0.078-0.11 ug/bee (as 'Vydate'); (contact) 0.27-0.36 ug/bee.**SECTION 13 - DISPOSAL CONSIDERATION****Pesticide disposal**

Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed should be disposed of in a landfill approved for pesticide disposal. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Package product wastes:

Do not re-use the empty container for any other purpose.

14. TRANSPORT INFORMATION**UN-No.:** 2757

Labelling No.: 6.1

Proper shipping name: Carbamate pesticide, solid, toxic (Oxamyl)

IATA_C

Class: 6.1

Packaging group: II

UN-No.: 2757

Labelling No.: 6.1

Proper shipping name: Carbamate pesticide, solid, toxic (Oxamyl)

IMDG

Class: 6.1

Packaging group: II

UN-No.: 2757

Labelling No.: 6.1

Proper shipping name: Carbamate pesticide, solid, toxic (Oxamyl)

Marine pollutant: Marine pollutant.

15. REGULATORY INFORMATION**Symbol:** T+, F, N, Xi**Indication of danger:** Very toxic**Risk phrases**

R23/25 Toxic by inhalation and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environments

Safety phrases:**S 1/2** Keep locked up and out of the reach of children.**S 13** Keep away from food, drink and animal feeding stuffs.**S 20/21** When using do not eat, drink or smoke.**S 35** This material and its container must be disposed of in a safe way.**S 36/37/39** Wear suitable protective clothing, gloves and eye/face protection.**S 38** In case of insufficient ventilation, wear suitable respiratory equipment.**S 45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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S57 Use appropriate container to avoid environmental contamination

Indication of danger :

National legislation: In accordance with 91/155/EEC Directive and with French standard T 01-102 and the South African Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993).

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

- R10 Flammable.
- R20 Harmful by inhalation.
- R21 Harmful in contact with skin.
- R26/28 Also very toxic by inhalation and if swallowed.
- R34 Causes burns.
- R51 Toxic to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.

Further information

Take notice of the directions of use on the label.

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.