

Safety Data Sheet

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| Issue No: 1.0 | 1 st Edition: September 2017 |
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1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name: **Marksman 240 SC**
 Recommended Use: Agricultural Insecticide
 Supplier: ICA International Chemicals (Pty) Ltd
 Address: 28 Planken Street
 Plankenbrug Industrial
 STELLENBOSCH · 7600 · SOUTH AFRICA
 Telephone No: +27 (0) 21 886 9812
 Fax No: +27 (0) 21 886 8209
 Emergency Tel No: Griffon Poison Information Centre +27 82 446 8946
 Poisons Helpline 0861 555 777

2. HAZARD IDENTIFICATION ON PRODUCT

GHS classification of product Acute Toxicity Category 5
 Acute Aquatic toxicity Category 2
 Chronic aquatic toxicity: 2

GHS Label elements



Signal Word

Warning

Hazard Statements

H303: May be harmful if swallowed
 H313: May be harmful in contact with skin
 H333: May be harmful if inhaled
 H401 Toxic to aquatic life
 H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

P101 If medical advice is needed: Have product container or label at hand
 P102 Keep out of reach of children
 P264 Wash thoroughly after handling
 P273 Avoid release to the environment
 P304 + 312 If inhaled: Call a poison centre/doctor if you feel unwell
 P391 Collect spillage
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up
 P501 Dispose of container and contents in accordance with local/national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT(s) | CAS NO: | Concentration (g/l) |
|-----------------|-------------|---------------------|
| Methoxyfenozide | 161050-58-4 | 240 |
| Solvent | | 760 |

4. FIRST AID MEASURES

Show this SAFETY DATA SHEET to a doctor.

- INGESTION:**
- No emergency medical treatment necessary.
- INHALATION:**
- Treat symptomatically. Remove patient from source of exposure and move to fresh air.
 - Get medical advice if feeling unwell.
- EYES:**
- Treat symptomatically. Remove any contact lenses. Rinse eyes immediately with plenty of clean water for at least 15 minutes. Hold eyelids apart while flushing.
 - Seek medical help if irritation continues.
- SKIN:**
- Treat symptomatically. Remove contaminated clothing and take a shower.
 - Rinse affected areas (skin) immediately with plenty of water.
 - If skin irritation occurs: Get medical attention/advice
- NOTE TO PHYSICIAN:**
- Treat symptomatically.
- POTENTIAL HEALTH AFFECTS:**
- No significant adverse effects expected.

5. FIRE FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:**
- Foam, dry chemical, carbon dioxide
- HAZARDS FROM COMBUSTION PRODUCTS:**
- Carbon monoxide, carbon dioxide, hydrochloric acid, nitrogen oxides.
- PRECAUTIONS FOR FIRE FIGHTERS:**
- Fire fighters should wear full protective gear including self-containing breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.
- HAZCHEM CODE:**
- 2X
- Further information:**
- If possible, safely remove intact containers from the fire.
 - Keep containers cool by spraying with water if exposed to fire
 - Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.
 - Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
 - In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK:

- Avoid contact with spilled material or contaminated surfaces.
- DO NOT eat, drink or smoke.
- Wear personal protective clothing and equipment (see section 8). Keep people and animals away.
- Control the spill at its source. Contain the spill immediately. Sweep up material or collect with absorbent material, scrub area with hard water detergent. Pick up wash liquid with additional absorbent material and place all collected in a container for disposal. Seal container and arrange for disposition.
- PREVENT spilled material from entering drains or sewer systems. Dike and bund area with sand/earth to prevent contamination of drains or sewers.

7. HANDLING AND STORAGE

- PRECAUTIONS FOR SAFE HANDLING:**
- Wear suitable protective clothing (Dust mask; Eye shields, Gloves)
 - No special measures necessary if stored and handled correctly.
 - Keep away from heat, protect from sunlight and from freezing.

Ensure thorough ventilation of stores and work areas
Wash hands, arms and face after use. Wash gloves and contaminated protective clothing daily.

CONDITIONS FOR SAFE STORAGE: Store out of reach of children, tightly closed in original containers, which include the complete label, in a cool, dry and well ventilated area out of direct sunlight.
Segregate from foods and animal feeds.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

AOEL: Acceptable Operator Exposure Level EU - 0.1 mg kg⁻¹bw day⁻¹

ENGINEERING CONTROLS: Facilities should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT: Wear suitable protective clothing which include chemical-resistant footwear, dust mask; eye shields and gloves (chemical-resistant gloves made of any waterproof material such as nitrile, butyl, neoprene and/or barrier laminate).

A respirator not normally required when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (colour; physical form) White Homogenous Liquid

ODOUR: Strong chemical

pH (1 % in water) 6-8

DENSITY: ~ 1.05 g/mℓ

FOAMING 50 mℓ/100 ℓ water After 12 minutes, 18 mℓ

WET SIEVE TEST < 0.1 %

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use

CONDITIONS TO AVOID: Excessive heat, freezing

11. TOXICOLOGICAL INFORMATION

ANIMAL ACUTE TOXICITY DATA

ORAL: LD₅₀ (rat) >5 000 mg/kg Low

DERMAL: LD₅₀ (rats) > 5 000 mg/kg bw.

INHALATION: LC₅₀ (4h) rat > 4.3 mg/ℓ

SKIN: Brief skin contact non irritating

EYES Essentially non irritating

Not a skin sensitizer. In studies not mutagenic, neurotoxic, carcinogenic, teratogenic, do not interfere with reproduction

12. ECOLOGICAL INFORMATION (a.i.)

ECOTOXICITY:

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|------------------------------------|--|
| Birds: LD ₅₀ (oral) | <i>Colinus virginianus</i> - Acute (mg kg ⁻¹) > 2250 (Low) |
| Fish: LC ₅₀ (96h) | <i>Oncorhynchus mykiss</i> (mg ℓ ⁻¹) > 4.2 moderate |
| Daphnia: EC ₅₀ (48h) | (mg ℓ ⁻¹) 3.7 moderate |
| Daphnia: NOEC (21d) | (mg ℓ ⁻¹) 0.39 moderate |
| Bees | Acute contact 48 hour LD ₅₀ (μg bee ⁻¹) > 100 low |
| | Acute oral 48 hour LD ₅₀ (μg bee ⁻¹) > 100 low |
| Earthworms: LC ₅₀ (14d) | Acute 14 day LC ₅₀ (mg kg ⁻¹) = >>607 moderate |

PERSISTENCE, DEGRADABILITY and MOBILITY:

Soil DT₅₀ field = 90
DT₅₀ soil = 456 = persistent
Aqueous photolysis DT₅₀ (days) at pH 7 = Stable
Water-sediment DT₅₀ (days) = 208.6 Slow
Mobility in soil: Moderately mobile

13. DISPOSAL CONSIDERATIONS

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities.

Invert empty container over mix or spray tank and allow draining for at least 30 seconds until flow has slowed to a drip. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Replace cap and return clean container to recycler. . If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. Do not use container for any other purpose.

DO NOT burn empty containers or product.

DIP Disposal: According to local legislative requirements

14. TRANSPORT INFORMATION

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|--------------------------------------|--|
| UN NUMBER: | 3082 |
| PROPER SHIPPING NAME: | Environmentally hazardous substance, liquid, n.o.s. (contains methoxyfenozide), liquid |
| CLASS AND SUBSIDIARY RISK(S): | Class 9 |
| PACKING GROUP: | III (minor danger) |
| HAZCHEM CODE: | 2Z |
| Tel No: | +27 (0) 21 886 9812 |

15. REGULATORY INFORMATION

South African Registration number L10389, Act No. 36 of 1947

16. OTHER INFORMATION

This Safety Data Sheet (SDS) summarises 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 SDS and consider the information in the context of how to prevent accidents in the normal workplace including in conjunction with other products.

The information was obtained from sources which we believe are reliable. However, the information is provided in good faith. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and for this reasons we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used for this product only.

END of SDS