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: WARRIOR 480 EC

Creation Date: June 2014 **Revision Date:** August 2017

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

Active ingredient: Clomazone 480 EC

Chemical name: 2-[(2-chlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone(CAS)

Formula: C12H14CINO2 CAS No.: 81777-89-1 UN No.: 1993

Risk phrases: R10, R20/22, R36, R65, R51/53

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components CI

EEC no

Clomazone 480g/l

R phrases R10, R20/22, R65, R36, R51/53

SECTION 3 - HAZARD IDENTIFICATION

MOST IMPORTANT HAZARDS:

Adverse human health effects: Harmful by inhalation and if swallowed

Harmful: May cause lung damage if swallowed

Irritating to eyes

Environmental effects: Toxic to aquatic organisms

May cause long-term adverse effects to the aquatic environment

Physical and chemical hazards:

-Fire or explosion: Flammable liquid

May form flammable/explosive vapour-air mixtures.

Burning and thermal decompositon may form toxic by-products

Carcinogenicity: See section 11. **Mutagenicity:** See section 11.

Reproductive/teratogenicity See section 11.

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

Inhalation: Move the affected person to the fresh air. If the person feels unwell: Call a doctor immediately.

Skin contact: Wash with soap and water. In case of redness or irritation, call a doctor

Eye contact: Rinse immediately with plenty of water (for at least 15 minutes).

Ingestion: Rinse mouth out with water. If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Never attempt to induce vomiting. Call a doctor immediately.

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SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, Carbon dioxide (CO₂) Powders

Specific hazards: May form flammable/explosive vapour-air mixtures. Toxic fumes are released

Specific Firefighting: Isolate fire area. Evacuate downwind. Contain the extinguishing fluids by bunding (the product is hazardous for the

environment) Do not attempt to fight the fire without suitable protective equipment. Do not breathe fumes.

Protection of fire fighter: Self-contained breathing apparatus. Complete protective clothing

SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

In case of important spillage: Mark out the contaminated area with sighns and prevent access to unauthorized personnel.

Environmental precautions:

Contain the spilled material by bunding (product is hazardous for the environment). Do not discharge into drains and rivers.

Methods for cleaning up: - Neutralization: Absorb spillage with:

- inert absorbent material.

- earth or sand

Follow by washing with:

- a 20% solution of potassium hydroxide in methanol

Cover the treated area with plastic and let stand for 24 h. Remove the covering and place

in a drum for a later disposal.

- Cleaning/decontamination: Wash with plenty of water and detergent.

- **Disposal**: Dispose of contaminated materials in accordance with current regulations.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

HANDLING

Technical measures: Vapour extraction at source

STORAGE:

Storage conditions: - Recommended: Store: - in a cool, dry area - in a well-ventilated area - away from heat - away from any flames. - Away from food and drinks and animal foodstuffs - Out of reach of children Packaging materials: -Recommended: Original packaging.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering control measures: Ensure good ventilation of the work station

Extraction to remove vapours at their source.

PERSONAL PROTECTIVE EQUIPMENT:

Respirator: In the event of insufficient ventilation: Filtering respiratory protective device with a specific pesticide canister.

Clothing: Impermeable suit (Hypalon, Tyvek, Saranex, PVC.)

Gloves: Neoprene protective gloves.

Eve protection: Safety spectacles with side shields

Hygiene measures: Always wash your hands after handling the product. Do not eat, drink or smoke during use Always take a shower

after work.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : Straw yellow
Odour : Aromatic

Flash point: 51.6°C (Closed cup)

pH (20°)(at 10g/I H20): 5.91 (Aqueous dispersion –1%)

Solubility in water: An emulsion is formed. (Will mix with water)

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SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable at ambient temperature and under normal conditions of use.

Hazardous decomposition: On thermal decomposition (pyrolysis), releases: Carbon oxides (CO, CO₂), Nitrogen chlorid, Chlorine

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: 1406 mg/kg

Acute dermal LD₅₀: >2000 mg/kg (Rabbit)

Acute inhalation LC₅₀ (4 h): 4.59 mg/ ℓ

Acute skin irritation:

Local effects: Irritating to the eyes.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Birds: LD₅₀ (birds):>2510 mg/kg Effects on the aquatic environment: product as is: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Fish: LC₅₀ (Rainbow trout/96h): 31 mg/ ℓ Daphnia: EC₅₀ (Daphnia)/48h: 31 mg/ ℓ Algae: EC₅₀ (Algae)/72h: 12.5 mg/ ℓ

SECTION 13 - DISPOSAL CONSIDERATION

Pesticide disposal:

Dispose of in accordance with relevant local regulations

Incinerate at a licensed installation

CONTAMINATED PACKAGING:

Decontamination/cleaning: Clean with water. Recover the cleaning water and dispose of at a specialist site.

Destruction/disposal: Recycle following cleaning.

14. TRANSPORT INFORMATION

UN NUMBER: 1993

ADR/IRD:

Shipping name: Flammable liquid, n.o.s.(Clomazone 480 g/l)

Class: 3
Classification code: F1
Packaging group: III

Label: 3 Hazard ID no. 30

IMDG/IMO

Shipping name: Flammable liquid, n.o.s.(Clomazone 480 g/l)

Packaging group: III Class: 3 Labels: 3

AIR/IATA

Shipping name: Flammable liquid, n.o.s.(Clomazone 480 g/l)

Class 3

Hazard Label Flammable liquid

Packaging Group III

Passenger Aircraft Y309 (max 10 L)

309 (max 60 L)

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Cargo Aircraft 310 (max 220L)

Tremcard number 30GF1-III

15. REGULATORY INFORMATION

Symbol: Xn; F; N

Indication of danger: Harmful (Xn); Flammable; Dangerous to the environment.

Risk phrases: R10: Flammable

R20/22: Harmful by inhalation and if swallowed R65: Harmful: May cause lung damage if swallOwed

R36: Irritating to eyes

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

Safety phrases: S1/2: Keep locked up and out of the reach of children.

S29: Do not empty into drains.

S60:This material and its container must be disposed of as hazardous waste.

S61:Avoid release to the environment.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

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.

REFERENCES

- Applicable to own physical and chemical, toxicity and ecotoxicity research studies.
- MICROMEDEX, Environmental Health & Safety Series.
- The Pesticide Manual, Eleventh Edition; C.D.S.Tomlin.
- ADR-Vol. II (Annex B), January 1997.
- Dangerous Goods Regulations, IATA, 40th Edition, Effective 1 January 1999.