1. **IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

Product label name: Fenpropathrin, 10% emulsion in water

GIFAP Code: EW

Use: Acaricide (agricultural use)

Supplier: PHILAGRO SOUTH AFRICA (PTY) LTD
Block 3B, 1st Floor,
Sanwoodpark,
379 Queens Crescent
LYNNWOOD 0181
Tel: (012) 3488808 Fax: (012) 3488808

Emergency Telephone Nos:
Clean up & Spill: 0800 00 58 17
Tygerberg Hospital Poison Centre: 021-931-6129

2. **COMPOSITION / INFORMATION ON INGREDIENTS:**

This product is to be considered as a preparation in conformance to EC directives.

Information on hazardous ingredients:

**Chemical description:** Fenpropathrin, 10% emulsion, oil in water.

**Composition / information on ingredients:**

<table>
<thead>
<tr>
<th>Number</th>
<th>%w/v</th>
<th>CAS-number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>39515-41-8</td>
<td>Alpha-cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate</td>
</tr>
<tr>
<td>2</td>
<td>15</td>
<td>64742-94-5</td>
<td>Naphtha solvent</td>
</tr>
</tbody>
</table>

Other information:

SCAE code: EE15

3. **HAZARDS IDENTIFICATION:**

Classified as hazardous according to EU directives 199/45/EC and 2001/160/EC.

HARMFUL (Xn), DANGEROUS FOR THE ENVIRONMENT (N)

R22: Harmful if swallowed
R65: Harmful: may cause lung damage if swallowed
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards:

May cause transient paresthesia.

4. **FIRST AID MEASURES:**

**Symptoms and effects**

Harmful if swallowed; may cause lung damage if swallowed.

Fenpropathrin is a synthetic pyrethroid and may cause a transient itching and/or burning sensation in exposed human skin (paresthesia). Typically, symptoms begin several hours after cutaneous exposure, peaks within 12 hours and resolves within about 24 hours.

**First aid**

**General**

In case of accident or if you feel unwell, seek medical advice immediately (show the label or container).

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Inhalation
Move to fresh air. If symptoms persist, seek medical advice.

Skin
Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before re-use.

Eye
Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical help if irritation develops.

Ingestion
Rinse mouth. DO NOT induce vomiting. Seek medical advice.

Advise to physician
Symptomatic treatment is advised.

5. FIRE-FIGHTING MEASURES:

Extinguishing media: Dry chemical powder, carbon dioxide, foam.

Unsuitable extinguishing media: Water with full waterjet.

Special exposure hazards: May emit toxic and corrosive fumes under fire conditions.

Hazardous decomposition/Combustion products: Nitrous gases (NOx).

Protective equipment: Wear self contained breathing apparatus. Wear suitable protective clothing and eye/face protection.

Other information: Water used to extinguish a fire should not be allowed to enter the drainage system or water courses.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: Avoid contact with skin and eyes. For personal protection see Section 8.

Environmental precautions: Do not allow to escape into sewage system or water courses.

Methods for cleaning up: In case of spill (liquid), soak it up immediately with suitable absorbent, such as sawdust or granular absorbent clay. Sweep up and dispose as waste following local regulations. Do not wash residues into drains or other waterways.

7. HANDLING AND STORAGE:

Handling: The usual precautions for handling chemicals should be observed. For personal protection see Section 8.

Fire and explosion prevention: Prevent electrostatic discharge. Above the flash point an explosive mixture can be formed.

Storage requirements: Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from heat.

Other information: Do not mix with water (except for the normal preparation).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Engineering controls: Provide adequate ventilation.

Exposure limits: No exposure limits have been established for this material.

Personal protection:

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Respiratory: The usual precautions for handling chemicals should be observed. In case of insufficient ventilation wear suitable respiratory equipment.

Hand: Wear protective gloves of rubber/plastic.

Eye: Wear safety goggles or face shield.

Skin and body: Wear suitable protective clothing.

Other information: Launder clothes before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES:
Appearance: liquid
Colour: white
Odour: aromatic solvent based characteristic odour
Boiling point/range: not determined
Melting point/range: not applicable
Flash point: not determined
Flammability: not determined
Auto ignition temperature: not determined
Explosive properties: not determined
Explosion limits: not determined
Oxidizing properties: not applicable
Vapour pressure: not determined
Density: 1.03 g / mℓ
Bulk density: not applicable
Solubility in water: emulsifiable in water (solubility of fenpropathrin TG = 14.1 µg/l at 25 °C)
Solubility in other solvents: not determined
pH value: 6 - 8
Partition coefficient n-octanol/water: not determined (fenpropathrin TG: log Pow = 6.0)
Relative vapour density (air = 1): not determined
Viscosity: 500 – 2000 cps

10. STABILITY AND REACTIVITY:
Stability: Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid: Avoid high temperatures.
Materials to avoid: Alkaline materials, strong oxidizing agents.
Hazardous decomposition products: May emit toxic and corrosive fumes under fire conditions (see also section 5).

11. TOXICOLOGICAL INFORMATION:
Name: Fenpropathrin, 10% emulsion, oil in water (similar formulation)

Acute toxicity:
Oral LD50: rat: 760 mg/kg
Dermal LD50: rat: > 2000 mg/kg
Inhalation LD50: rat (4 hours): > 1.65 mg/l

Irritation:
Skin: not irritant
Eye: minimally irritating

Sensitization: not sensitizing (Buehler test, with 10 induction applications).

Other toxicological

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information:

Active component (Fenpropathrin, technical grade):
- not genotoxic
- not carcinogenic

12. ECOLOGICAL INFORMATION:
No experimental ecological data are available on the preparation as such. The following data are applicable to the ingredient(s) listed below:

Name: Fenpropathrin, technical grade

Ecotoxicity:
Fish: Acute toxicity, 96h – LC50 (Oncorhynchus mykiss): 0.75μg/l
Daphnia: Acute toxicity, 48h – EC50 (Daphnia magna): 0.53μg/l
Algae: Acute toxicity, 96h – IC50 (Selenastrum capricornutum): > 2mg/l

Fate:
Bioaccumulation: Log Pow = 6.0

13. DISPOSAL CONSIDERATIONS:
Product: According to local regulations. For further advice contact manufacturer.
Contaminated packaging: According to local regulations.

14. TRANSPORT INFORMATION:
Land transport:
ADR/RID class 9 ADR/RID item number: 11
Label(s) 9 Packing group: III
Hazardous Identification No. 90 Substance Identification no. 3082
Trem-Card CEFIC TEC (R)90G01
UN number 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains: 10% fenpropathrin + 15% naphta solvent)

Sea transport
MO/IMDG code
Packing group III UN Number 3082
EMS F-A, S-F Marine pollutant yes
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains: 10% fenpropathrin + 15% naphta solvent)

Air transport
ICAO-TI/ATA-DGR UN number 3082
Class 9 Packing group III
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains: 10% fenpropathrin + 15% naphta solvent)

15. REGULATORY INFORMATION:
Chemical description Fenpropathrin, 10% emulsion, oil in water
GIFAP Code: EW
Labelling according to EC directives See section 2
Classification based on Voluntary classification based on components and tests
Date of revision: 20 May 2010
SAFETY DATA SHEET
According to EC-directive 2001/158/EC
MEOTHIN EW (FENPROPATHIN)

Symbols

HARMFUL (Xn)  DANGEROUS FOR THE ENVIRONMENT (N)

R(isk) phrase(s)
R22: Harmful in swallowed
R65: Harmful: may cause lung damage if swallowed
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S(safety) phrase(s)
S23: Do not breathe spray
S24: Avoid contact with skin
S38: In case of insufficient ventilation, wear suitable respiratory equipment
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION:
The information only concerns the above mention product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user’s own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Full text of risk phrase(s) used in this document:

R21: Harmful in contact with skin
R22: Harmful in swallowed
R25: Toxic if swallowed
R26: Very toxic by inhalation
R65: Harmful: may cause lung damage if swallowed
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

Date of previous version: 14 December 2000 (revision 0.00)
Date of revision: 4 March 2003
Revision: 1.00
Composed by: O. Mercier
Changes were made in all section except nos 2, 5, 6, 9, 10, 12, 13 according to new EU regulation and new transport regulation

Date of revision: 20 May 2010