

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**1. CHEMICAL PRODUCT IDENTIFICATION**

Product Name: Farnesafen 250 SL
Product Use: Herbicide
Effective Date: January 2016
Revision Date: September 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

2. COMPOSITION / INFORMATION ON INGREDIENTS

Common name: Fomesafen
Chemical Name: 5-(2-chloro- α , α , α -trifluoro-p-tolyloxy) -N-methylsulfonyl -2-Nitrobenzamide (IUPAC)
Molecular Formula: $C_{15}H_{10}ClF_3N_2O_6S$
Molecular Weight: 438.8
CAS No: 72178-02-0
Use: Early post-emergence control of broad-leaved weeds in soya beans.
Formulation: Fomesafen 250 g/l
 Suspension Concentrate (liquid)

UN NO.: 3082

Ingredient		CAS No.	Content % (w/v)
Active Ingredient	Fomesafen	72178-02-0	25.0
Inert Ingredient	Other ingredients, including water	//	Up to 100%

3. HAZARD IDENTIFICATION

Irritating to eyes. May cause sensitization by skin contact.

4. FIRST AID MEASURES AND PRECAUTIONS**Eye contact:** Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.**Skin contact:** Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimize contact with skin. Contaminated clothing should be laundered before re-issue.**Inhalation:** Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.**Ingestion:** If swallowed seek medical advice immediately and show the container, label or this Data sheet, if possible. Do not induce vomiting.**Medical advice:** Symptomatic treatment and supportive therapy as indicated.**5. FIRE-FIGHTING MEASURES**

Keep fire exposed containers cool by spraying with water.

Extinguishing media: For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.**Protective equipment:** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.**6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)****Personal precautions:** Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.

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Clean up methods: Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Spillages or uncontrolled discharges into watercourses must be alerted to the regulatory body.

7. HANDLING AND STORAGE REQUIREMENTS

Handling:

Read the label before use.

Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

Storage:

Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feedings stuffs. Protect from frost.

Storage life:

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure controls:

Internal exposure limit: (Fomesafen)

SIEL (Syngenta internal occupational exposure level): 8 hr TWA 2 mg/m³.

Not applicable to field use.

Personal protection

When using this product refer to the label for details.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Yellow to brown
Odour:	Not available
Boiling Point:	approx 100°C aqueous solution
Melting Point:	Not available
Flash Point:	Does not flash
Autoignition temperature:	Not available
Explosive properties:	Not applicable
Vapour pressure:	Not available
Density:	1.15 g/ml (at 20°C)
Solubility:	Miscible in/with water
PH-value (quant.):	6.0-9.0
Partition coeff:	Not available
Oxidizing properties:	Not applicable

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

Acute toxicology (Lethal Doses)LD₅₀ Oral rat: > 2500 mg/kg Low oral toxicity.LD₅₀ Dermal rabbit: (calculated) > 2000 mg/kg

Inhalation: > 5136 mg/l

Acute Toxicity (Irritation, Sensitisation Etc.)

Eye Irritation: The concentrate is a severe eye irritant

Skin Irritation: Non irritating to the skin.

Skin sensitization: It is not a skin sensitizer.

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Tel + 27 31 003 3486 • Fax + 27 31 502 5825**Chronic Toxicological Effects/Long Term Exposure:**

Long term exposure: No long term risks to man are associated with the normal handling and use of this material.

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

Non-toxic to bees, fish, birds, earthworms and other non-target organisms.

Birds: Acute oral LD₅₀ for mallard ducks >5000 mg/kgDietary LC₅₀ (5d) for mallard ducks and bobwhite quail >20 000 mg/kg**Fish** LC₅₀(96 h) for rainbow trout 155, bluegill sunfish 1375 mg/l**Daphnia** EC₅₀(48h) 330 mg/l**Algae** EC₅₀ 170 µg/l**Bees** Low oral and contact toxicity to bees. LD₅₀ (oral) >50 µg/bee**Worms** *Pseudokirchneriella cadate* (72 h) 0.120 mg**13. DISPOSAL CONSIDERATION**

Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the "Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm" GIFAP, 1987. Empty containers should be washed and discarded.

Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

UN No. : 3082

Class: 9

Packaging group: III

15. REGULATORY INFORMATION

Classification:

Hazard symbol	Xi	IRRITANT
Risk Phrases (R)	R36	Irritating to eyes
	R43	May cause sensitization by skin contact.
Safety Phrases	(S)2	Keep out of reach of children
	13	Keep away from food, drink and animal feeding stuffs
	20/21	When using, do not eat, drink or smoke.
	24	Avoid contact with skin
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	37/39	Wear suitable gloves and eye/face protection

This substance is covered by the EEC Dangerous Substances Directive (CPL Regulations). It has therefore been labeled in accordance with these regulations. Users should ensure that they comply with any relevant local, state or national legislation.

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 on 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 containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.