

**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:** FARMAG METOLACHLOR 960  
Herbicide  
UN No.: 3077

**Creation Date:** October 2013  
**Revision Date:** March 2021

**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**

**Product Name:** FARMAG METOLACHLOR 960  
**Active Ingredient:** Metolachlor  
**CAS No:** 51218-45-2  
**Chemical Name:** 2-chloro-6-(2-ethyl-N-(2-methoxy-1-methylethyl) acet-o-toluidide  
**Chemical Class:** Chloroacetanilide herbicide  
**Signal Word:** Caution

**SECTION 3 - HAZARD IDENTIFICATION****Symptoms of acute exposure**

Exposure may cause moderate irritation of eyes, skin, or respiratory tract. A skin sensitization (allergic) reaction may occur in some individuals. Exposure to the active ingredient is reported to cause headache or nausea, usually subsiding within 24 hours.

**Hazardous decomposition product**

None known

**Unusual fire, explosion and reactivity hazards**

This product is a combustible liquid.

**SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS**

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

**Ingestion**

If victim is fully conscious, immediately give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

**Eye contact**

Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

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## **Skin contact**

Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

## **Inhalation**

Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

## **Notes to Physician**

There is no specific antidote if this product is ingested. If a large amount has been ingested and emesis is inadequate, lavage stomach. The active ingredient of this product has a high affinity for activated charcoal. Five mg/kg activated charcoal suspension (50 g/400 ml water) can be given to absorb the remaining toxicant. Skin reactions have been treated with antihistamines and ointments containing an anti-inflammatory agent. Treat symptomatically. Contact with eyes may require specialized ophthalmologic attention.

## **Medical condition likely to be aggravated by exposure**

Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

## **SECTION 5 - FIRE-FIGHTING MEASURES**

### **Fire and explosion**

Flash Point (Test Method)	:	>35 °C (closed cup)
Autoignition temperature	:	380 °C
Flammability	:	The product is flammable

### **Unusual fire, explosion and reactivity hazards**

This product is a combustible Liquid. In case of fire use dry chemical, foam, or CO<sub>2</sub> extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)**

In case of a spill or leak chemical goggles or a full-face shield, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus (SCBA) must be worn. For small spills, cover with an absorbent material such as pet litter. Sweep up and place in an approved, chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

## **SECTION 7 - HANDLING AND STORAGE REQUIREMENTS**

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

## **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

**The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.**

### **For commercial applications and on-farm applications consult the product label. Ingestion**

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

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To avoid eye contact, wear safety glasses with side shields or chemical goggles.

**Skin Contact**

To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

**Inhalation**

To avoid breathing spray or mist, wear a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a supplied-air respirator.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Odour</b>	:Aromatic
<b>Appearance</b>	:Amber liquid
<b>Melting Point</b>	:Not applicable
<b>Boiling Point</b>	:140-160 °C Specific
<b>Gravity/Density</b> :1.1–1.12 g/ml	
<b>pH</b>	:7-9 (1 % solution in H <sub>2</sub> O @ 25 °C) Solubility in H <sub>2</sub> O
	:490.0 mg/L @ 25 °C
<b>Vapour Pressure</b>	: Metolachlor 1.7 mPa @ 20 °C

**SECTION 10 - STABILITY AND REACTIVITY**

Reactivity:	Not corrosive
Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None known
Hazardous Decomposition Products:	None known

**SECTION 11 - TOXICOLOGICAL INFORMATION****Acute toxicity/irritation studies**

Ingestion:	Slightly toxic Oral LD50 (rat) 2754 mg/kg body weight
Dermal:	Practically non-toxic Dermal LD50 (rabbit) >3000 mg/kg body weight
Inhalation:	Slightly Toxic Inhalation LC50 (rat) 1,6 mg/l air – 4 hours Eye Contact :
Moderately irritating (rabbit)	
Skin Contact:	Moderately Irritating (rabbit)

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Skin Sensitization: Sensitizing (guinea pig)

**Mutagenic potential**

Metolachlor: None observed

**Reproductive hazard potential**

Metolachlor: None observed

**Carcinogenic potential**

Metolachlor: Small number of female rats developed benign liver tumors at extremely high dose levels.

**SECTION 12 - ECOLOGICAL INFORMATION**

Stable in sterile water, in the dark at pH 5,7 and 9. Degrades in the light more slowly in water (DT<sub>50</sub> = 70 d @ pH 7) than on soil (DT<sub>50</sub> = 8 d). Moderate degradation in soil, in the dark under aerobic or anaerobic conditions (DT<sub>50</sub> = 26 to 81 d). Mobility classified as very high to high with various soils (Koc = 22 to 110). Bioaccumulation in fish is low (BCF = 69X, whole fish).

**SECTION 13 - DISPOSAL CONSIDERATION****Disposal**

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local and environmental regulations. Discarded product may exhibit TCLP hazardous characteristics. A hazardous waste determination should be done on a case by case basis.

**Listed waste**

Not applicable.

**14. TRANSPORT INFORMATION****UN No.:** 3082**Road Transport ADR/IRD:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S. (S- metolachlor 960 g/l)

**Air Transport ICAO/IATA:**

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S. (S- Metolachlor 960 g/l)

**IMDG/IMO**

Proper shipping name: Environmentally hazardous substance, liquid, N.O.S. (S - Metolachlor 960 g/l)

Class: 9

Packaging group: III

**15. REGULATORY INFORMATION****European information**

Risk phrase: R43 (May cause sensitisation by skin contact)

**South Africa**

Danger group II (SABS 0304-1)

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## **16. OTHER INFORMATION**

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Usage : a selective herbicide.

**FARMAG METOLACHLOR 960 is the property of FARM-AG INTERNATIONAL (Pty) Ltd.**

Disclaimer:

Read the label before use or buy.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors or omissions or the consequence thereof. This document is intended only as a guide to the appropriate handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for the particular purpose. **FARM-AG INTERNATIONAL (Pty) Ltd** make no representation or warranties, either express or implied, including without limitation any warranties of merchant ability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly **FARM-AG INTERNATIONAL (Pty) Ltd** will not be responsible for damages resulting from the use of or reliance upon this information.

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