

SAFETY DATA SHEET

WISE

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1. IDENTIFICATION

Product name: **WISE**
Chemical name of active ingredient(s): Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide
Fomesafen: 5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-nitrobenzamide
Manufactured for: Makhteshim Agan of North America, Inc.
3120 Highwoods Boulevard, Suite 100
Raleigh, NC 27604
Phone: 1-919-256-9300
For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053
For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

2. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES:

APPARANCE: Light amber liquid

ODOR: Mild

EMERGENCY OVERVIEW: DANGER Corrosive. Cause irreversible eye damage. Do not get in eyes or on clothing. Wear (specify appropriate protective eye wear such as goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

PHYSICAL OR CHEMICAL HAZARDS: Do not use or store near heat or open flame.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Metolachlor	51218-45-2	48.26	NA	NA	NA	NA
Fomesafen Sodium salt	108731-70-0	10.3	NA	NA	NA	NA
Sodium hydroxide	1310-73-2	0.89	2 mg/m ³ (TWA)	2 mg/m ³	NA	

NA=Not applicable

4. FIRST AID MEASURES

IF IN EYES:	<ul style="list-style-type: none">Hold eye open and rinse slowly and gently with water for 15-20 minutes.Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none">Immediately call a poison control center or doctor.Do not induce vomiting unless told to do so by a poison control center or doctor.Do not give any liquid to the person.Do not give anything by mouth to an unconscious person.
IF INHALED:	<ul style="list-style-type: none">Move person to fresh air.If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.Call a poison control center or doctor for further treatment advice.

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IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-887-250-9291 for emergency medical treatment information.	
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	

5. FIRE FIGHTING MEASURES

FLASH POINT: >230°F (Setaflash)

FLAMMABLE LIMITS: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical

UNUSUAL FIRE EXPLOSION AND REACTIVITY HAZARDS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

FIRE-FIGHTING PROCEDURES: 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 unauthorized entry to the fire area. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: In case of spill or leak on floor or paved surfaces, soak up with sand earth, or synthetic absorbent. Remove to chemical waster area. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of waters. Dispose of in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage or disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep out of reach of children. Follow label directions carefully. Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store product in original container only.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION EQUIPMENT (PPE) ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Protective eyewear (e.g. goggles or full-face shield).

HAND PROTECTION: Wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] OR Viton).

SKIN PROTECTION: Coveralls over short-sleeve shirt and short pants, chemical-resistant footwear plus socks.

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ADDITIONAL PROTECTIVE MEASURES: Discarded clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light amber liquid

ODOR: Mild

FLASH POINT: >230°F

pH: 6.87

DENSITY: 1.108 g/cm³ @25°C (9.22 lbs/gal); 1.095 g/cm³@40°C (9.14 lbs/gal)

VISCOSITY (centipoises): 205@25°C; 95.7@40°C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

CONDITIONS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Not known to occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

- Acute Oral LD₅₀ (Rat): 2,000 mg/kg
Acute Dermal LD₅₀ (Rat): >5,000 mg/kg
Acute Inhalation LC₅₀ (Rat): >2.04 mg/L (4-hours)
Eye Irritation (Rabbit): Severely irritating
Dermal Irritation (Rabbit): Moderately irritating
Dermal Sensitization (Guinea Pig): Not a skin sensitizer

MUTAGENICITY EFFECTS:

- Metolachlor: None observed.
Fomesafen Sodium Salt: Non-genotoxic in *in vitro* and *in vivo* assays.

REPRODUCTIVE/DEVELOPMENT EFFECTS:

- Metolachlor: Study evidence suggests that metolachlor is not likely to have an effect on reproduction in humans under normal circumstances.
Fomesafen Sodium Salt: Hepatic changes and a small effect on reproductive performance seen in a 3-generation rat study at the 1000 ppm dose level. (based on Fomesafen Technical).

CHRONIC/SUBCHRONIC TOXICITY STUDIES:

- Metolachlor: None observed
Fomesafen Sodium Salt: Liver effects seen at 10 ppm and 100 ppm in 90-day rat feeding studies and in 6-month dog studies at 25 mg/kg/day. (based on Fomesafen Technical)
No evidence of neurotoxicity from subacute or longer-term studies in mammals. (based on Fomesafen Technical)

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CARCINOGENICITY

Metolachlor: Study evidence suggests that it seems unlikely that metolachlor is carcinogenic in humans.

Fomesafen Sodium Salt: Increased rates of malignant liver tumors in a 2-year mouse feeding study (1000 ppm), but the results are not considered relevant to man. (based on Fomesafen Technical)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: For terrestrial uses. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate. Do not apply when weather conditions favor drift from target area.

SUMMARY OF EFFECTS (Metolachlor): Moderately toxic to fish and invertebrates. Slightly to practically non-toxic to birds. Non-toxic to bees.

ECO-ACUTE TOXICITY:

Metolachlor:

Rainbow Trout 96-hour LC₅₀: 3 mg/L
Carp 96-hour LC₅₀: 5 mg/L
Channel Catfish 96-hour LC₅₀: 5 mg/L
Bluegill Sunfish 96-hour LC₅₀: 15 mg/L
Daphnia magna 48-hour LC₅₀: 25 mg/L
Mallard Duck LC₅₀: >2,000 mg/kg
Bobwhite Quail LC₅₀: >4,500 mg/kg

Fomesafen:

Fish (Rainbow Trout) 96-hour LC₅₀: 680 ppm
Invertebrate (Water Flea) *Daphnia Magna* 48-hour EC₅₀: 294 ppm
Bird (Mallard Duck) 14-day LD₅₀: > 5,000 mg/kg

ENVIRONMENTAL FATE:

Metolachlor: Moderately persistent in soil and highly persistent in water. Relatively stable in water.

Fomesafen Sodium Salt: The information presented here is for the active ingredient, Fomesafen. Persistent in soil. Stable in water. Highly mobile in soil. Will leach, Sinks in water (after 24 hours).

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of Federal law. Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, state, or local procedures.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated

INTERNATIONAL TRANSPORTATION

IMO (vessel): UN 3082, Environmentally hazardous substance, Liquid, N.O.S., (Metolachlor), 9, PGIII, Marine pollutant

IATA (air): UN 3082, Environmentally hazardous substance, Liquid, N.O.S., (Metolachlor), 9, PGIII, Marine pollutant

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15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
Section 311/312: Acute health hazard (immediate)
Chronic health hazard (delayed)
Section 313: Not applicable

CERCLA RQ: Sodium hydroxide (CAS 1310-58-3) - 1,000 lbs.

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

CA PROPOSITION 65: Not applicable

16. OTHER INFORMATION

NFPA HAZARD RATINGS	NFPA	HMIS	
HEALTH:	3	3	0 MINIMAL
FLAMMABILITY:	1	1	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

MSDS DATE: 1-7-13.

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