

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**COMPANY ADDRESS:**

ALBAUGH, LLC
Ankeny, IA 50021

EMERGENCY TELEPHONE NUMBERS:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call
CHEMTREC Day or Night

- Within USA and Canada: 1-800-424-9300 CCN771
- Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

PRODUCT NAME**: METOLACHLOR 8E****CHEMICAL NAME****: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide****PRODUCT USE****: Herbicide****PRODUCT CODE****: EPA Reg. No. 42750-340**

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

PHYSICAL HAZARDS

Flammable liquids: Category 4

HEALTH HAZARDS

Acute toxicity, inhalation: Category 4

Eye irritation: Category 2B

Skin irritation: Category 3

ENVIRONMENTAL HAZARDS

Hazardous to aquatic environment, acute: Category 2

SIGNAL WORD

WARNING

HAZARD STATEMENTS

Combustible liquid. May be harmful if swallowed. Harmful if inhaled. Causes eye irritation. Causes mild skin irritation. Toxic to aquatic life.

**PRECAUTIONARY STATEMENTS**

Keep away from flames and hot surfaces. No smoking. Wear protective gloves/eye protection/face protection. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco or using the toilet. Do not eat, drink or smoke when using this product. Avoid breathing mist/vapors. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with eyes, skin or clothing. Avoid unintended release to the environment.

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER
Metolachlor	84.10	51218-45-2
Petroleum distillates (contains)*	6.16	64742-94-5
*Trimethylbenzene	0.10	95-63-6
*Napthalene	0.61	91-20-3
Other components	9.74	N/A

SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 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 INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: There is no specific antidote for Acetochlor Technical. Treat symptomatically.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5 - FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

FLASHPOINT: 81.7 °C

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Dike and collect water used to fight fire to prevent environmental damage due to run off.

Minimize use of water to prevent environmental contamination. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. After removal, clean the area with detergent and water. Pick up wash liquid with additional absorbent and place in a disposable container.

Minimize use of water to prevent environmental contamination

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate.

HANDLING: Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

STORAGE: Store in original container with lid tightly closed. Keep away from food, feed and drinking water. Store in a well ventilated, dry place away from heat and other sources of ignition.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm):

COMPONENT	OSHA PEL	ACIGH TLV
Metolachlor	Not listed	Not listed
Trimethylbenzene	Not listed	Not listed
Napthalene	10 ppm	10 ppm TWA 15 ppm ST

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety glasses or goggles.

CLOTHING - Long-sleeved shirt and long pants, Shoes plus socks.

GLOVES – Chemical-resistant gloves, such as barrier laminate, or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.

Discard 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/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Wash hands 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber clear liquid
Odor:	Aromatic like
pH:	5.49
Melting Point:	Not applicable
Boiling Point:	No data
Flash Point:	81.7 °C
Evaporation Rate:	No data
Flammability:	No data
Flammability Limits:	Not applicable
Vapor Pressure:	No data
Vapor Density:	No data
Density:	1.087 g/cm ³ @ 20 °C*
Solubility:	Miscible.
Partition Coefficient:	No data
Auto-Ignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity:	43.4 cSt @ 20°C / 15.6 cSt @40°C

*Listed pH and density are an approximate value and does not necessarily represent that of a specific batch.

SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: None known.

CHEMICAL STABILITY: Stable, however may decompose if heated.

HAZARDOUS REACTION/POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: Avoid temperatures above (125°F, 48°C)

INCOMPATIBLE MATERIALS: Acidic and oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Oxides of nitrogen

SECTION 11 - TOXICOLOGICAL INFORMATION**ACUTE TOXICITY:**

Oral LD ₅₀ (rat)	- 2,926 mg/kg (male)
Dermal LD ₅₀ (rat)	- > 5,000 mg/kg
Inhalation LC ₅₀ (rat)	- > 2.18 mg/L
Eye Irritation (rabbit)	- Moderate eye irritant
Skin Irritation (rabbit)	- Mildly irritating
Sensitization (guinea pig)	- Potential sensitizer

CARCINOGEN STATUS:

OSHA	- Not listed
NTP	- Naphthalene
IARC	- Naphthalene: 2B
EPA	- Class C – Possible human carcinogen

TERATOGENICITY: Reproductive or developmental effects only noted at maternally toxic doses.

MUTAGENICITY: Limited evidence of germ cell genetic defects

SECTION 12 - ECOLOGICAL INFORMATION**ENVIRONMENTAL SUMMARY:**

Metolachlor is mobile in the soil, is easily leached, and resists breakdown for long periods of time. The breakdown of the compound is affected by temperature, moisture, microbe activity, amount of leaching, soil type, nitrification, oxygen concentrations and sunlight. Soil metabolism primarily occurs by both aerobic and anaerobic microorganisms. Any temperature and moisture changes which affect microbial activity will also affect the breakdown of this herbicide. As temperature increases, the degradation rate also increases. Also, the deeper the chemical is in the soil, the less organic matter and fewer soil microbes are present, so the herbicide takes longer to degrade. Most of acetanilide herbicides, of which metolachlor is a member, are lost through microbial decomposition.

Breakdown by sunlight is another important degradation pathway. About fifty percent of applied metolachlor was found to have degraded on sunlit soil over a period of eight days. But, if this chemical was incorporated into the top two inches of soil, then degradation by photolysis was minimal (6% over one month).

FISH TOXICITY: (technical)

96 hour LC ₅₀ , Rainbow trout –	2.0 ppm
96 hour LC ₅₀ , Bluegill –	15.0 ppm

AVIAN TOXICITY: (technical)

Dietary LC ₅₀ , Bobwhite quail –	> 5,000 ppm
Dietary LC ₅₀ , Mallard duck -	> 5,000 ppm

BEE TOXICITY: (technical)

Unknown

SECTION 13 - DISPOSAL CONSIDERATIONS

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

PESTICIDE DISPOSAL: Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Pesticide, mixtures, or equipment rinse water that cannot be chemically reprocessed must be disposed of according to applicable federal, state, or local procedures. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace or tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a tank mix or store rinsate for later use or disposal. Repeat this procedure two more times.

Refer to the product label for additional and complete Container Handling instructions

SECTION 14 - TRANSPORT INFORMATION**SHIPPING DESCRIPTION:**

(Ground transport)	Not DOT regulated
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TRANSPORT HAZARD CLASS:	N/A
UN NUMBER:	N/A
DOT PACKING GROUP:	PG III

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III STATUS:
 311/312 Hazard Categories – Immediate, chronic
 313 Toxic Chemicals – Naphthalene, Trimethylbenzene

CALIFORNIA PROP 65: Naphthalene

TSCA: This product is exempted from TSCA because it is solely for FIFRA regulated use.

SECTION 16 - OTHER INFORMATION

HMS HAZARD RATINGS	HEALTH	2
	FLAMMABILITY	1
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: March 06, 2020

REFERENCE: Updated Section 14.