

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 + MESOATZ SC****CHEMICAL NAME**

: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide
: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine
: 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione

PRODUCT USE

: Herbicide

PRODUCT CODE

: EPA Reg. No. 42750-344

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 Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide.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

None

HEALTH HAZARDS

Acute toxicity, Inhalation: Category 4

Skin Corrosion/Irritation: Category 2

Eye Corrosion/Irritation: Category 2A

ENVIRONMENTAL HAZARDS

None

SIGNAL WORD

WARNING

HAZARD STATEMENTS

Maybe harmful if swallowed. Harmful if Inhaled. Causes skin irritation. Causes severe eye irritation.

**PRECAUTIONARY STATEMENTS**

Wash thoroughly after handling. Do not breath mist/vapor/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Cal a poison center/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water/soap. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER
Metolachlor	19.0	51218-45-2
Atrazine (and related compounds)	19.0	1912-24-9
Mesotrione	2.4	104206-82-8
Other components	59.6	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 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 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 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.

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.

NOTE TO PHYSICIAN: If ingested, induce emesis or lavage stomach. Administration of an aqueous slurry of activated charcoal can be considered. 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

FLASHPOINT: No data

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, cool and 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
Acetochlor	Not listed	Not listed
Mesotrione	Not listed	Not listed
Atrazine	Not listed	2 mg/m ³ (inhalable fraction)

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:

Mixers, loaders, applicators, flaggers, and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or Viton)
- Chemical-resistant footwear plus socks
- Chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.
- Chemical-resistant headgear for overhead exposure.

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:	Off white viscous, opaque liquid
Odor:	Slight aromatic-like
pH:	3.0 – 4.0
Melting Point:	Not applicable
Boiling Point:	No data
Flash Point:	No data
Evaporation Rate:	No data
Flammability:	No data
Flammability Limits:	Not applicable
Vapor Pressure:	No data
Vapor Density:	No data
Density:	1.069 g/cm ³ @ 20 °C*
Solubility:	Miscible.
Partition Coefficient:	No data
Auto-Ignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity:	885.3 (20°C), 1,389.3 (40°C)

*Listed density is 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 below 25 F and above (125°F)

INCOMPATIBLE MATERIALS: Acidic and oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, Hydrogen chloride, Oxides of nitrogen

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

Oral LD ₅₀ (rat)	- > 5,000 mg/kg
Dermal LD ₅₀ (rat)	- > 5,000 mg/kg
Inhalation LC ₅₀ (rat)	- > 2.16 mg/L
Eye Irritation (rabbit)	- Severe
Skin Irritation (rabbit)	- Moderate
Sensitization (guinea pig)	- Non- sensitizer

CARCINOGEN STATUS:

OSHA	- Not listed
NTP	- Not listed
IARC	- Group 3

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.

FISH TOXICITY: (metolachlor) 96 hour LC ₅₀ , Rainbow trout – 2.0 ppm 96 hour LC ₅₀ , Bluegill – 15.0 ppm	FISH TOXICITY: (atrazine) 96 hour LC ₅₀ , Rainbow trout –4.5 mg/l 96 hour LC ₅₀ , Bluegill – no data	FISH TOXICITY: (Mesotrione) 96 hour LC ₅₀ , Rainbow trout - > 120 mg/L 96 hour LC ₅₀ , Bluegill - > 120 mg/L
AVIAN TOXICITY: (metolachlor) Dietary LC ₅₀ , Bobwhite quail – > 5,000 ppm Dietary LC ₅₀ , Mallard duck - > 5,000 ppm	AVIAN TOXICITY: (atrazine) Dietary LC ₅₀ , Bobwhite quail – no data Dietary LC ₅₀ , Mallard duck - no data	AVIAN TOXICITY: (Mesotrione) Oral LD ₅₀ , Bobwhite quail - No data Oral LD ₅₀ , Mallard duck - No data
BEE TOXICITY: (metolachlor) Unknown	BEE TOXICITY: (atrazine) Unknown	BEE TOXICITY: (Mesotrione) Contact LD ₅₀ - No data

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 regulated

TRANSPORT HAZARD CLASS: N/A
UN NUMBER: N/A
DOT PACKING GROUP: PG III

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: Not listed

SARA TITLE III STATUS:

311/312 Hazard Categories –
313 Toxic Chemicals –

Immediate, chronic
Atrazine

CALIFORNIA PROP 65:

Atrazine, Reproductive & developmental toxicity

TSCA:

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

SECTION 16 - OTHER INFORMATION

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

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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: February 28, 2020

REFERENCE: Initial release