

MATERIAL SAFETY DATA SHEET

BASIN

1. **CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**
ALTITUDE CROP INNOVATIONS LLC
4850 Hahns Peak Drive, Suite 200
Loveland, CO 80538

PRODUCT NAME: BASIN

EPA REG. NO.: 89168-28-91395

CHEMICAL NAME: Metolachlor / Metribuzin

CHEMICAL FAMILY: Herbicide (Chloroacetanilide/Triazinone)

Hotline Numbers: For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – WARNING. Causes skin irritation. Harmful if swallowed. Causes moderate eye irritation. Do not get on skin or on clothing.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>PEL/TLV (Units)</u>
Metolachlor	57.64	51218-45-2	10ppm
Metribuzin	14.13	21087-64-9	5 mg/m3
Heavy aromatic petroleum hydrocarbons		64742-94-5	
Containing Napthalene	<5.00	91-20-3	50 mg/m3

4. FIRST AID MEASURES

If on skin or clothing: 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.

If Swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Note to Physician: May pose an aspiration pneumonia hazard. Contains petroleum distillate.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT have the product container or label with you when calling a poison control center or doctor.

5. FIRE FIGHTING MEASURES

FLASH POINT (^oF/Test Method): >180°F

FLAMMABLE LIMITS (LFL & UFL): Not established

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Toxic fumes may be emitted in a fire situation.

SPECIAL FIRE FIGHTING PROCEDURES: 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. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distance ignition sources and flash back.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece. Full fire fighting turn-out gear (Bunker gear).

HAZARDOUS COMBUSTION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of leak or spill, contain material and dispose as waste. Do not contaminate any body of water. Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state and federal regulations for proper disposal. **NOTE:** Prevent spilled material from flowing onto adjacent land, or into municipal sewers and open bodies of water. Always wear proper protective equipment when working with the product.

7. HANDLING AND STORAGE

HANDLING: Wash hands 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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in ambient temperatures, in a dry area away from any heat or ignition source and away from children and animals. Mix well before using. Keep tightly closed. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

RESPIRATORY PROTECTION: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. If TLV is exceeded wear a NIOSH approved respirator.

EYE PROTECTION: Wear chemical resistant goggles or shielded safety glasses when handling and mixing product.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes plus socks and chemical-resistant gloves. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

Personal Protective Equipment (PPE): Applicators and other handlers must wear: Coveralls over short-sleeved shirt and short pants. Chemical-resistant gloves: (such as barrier laminate, butyl rubber, nitrile rubber, viton or other Selection Category F), Chemical-resistant footwear plus socks, Chemical-resistant headgear for overhead exposure, Chemical-resistant apron when cleaning equipment, mixing, or loading. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Amber liquid, Moderate

SOLUBILITY: Emulsifies

pH: 5.0 – 6.0

SPECIFIC GRAVITY (Water=1): 1.073 – 1.077 g/ml

BULK DENSITY: 8.94 – 8.98 lbs/gal.

VAPOR PRESSURE: Not established

BOILING POINT: Not established

PERCENT VOLATILE (by volume): Not available

EVAPORATION RATE: Not available

Note: These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat

IMCOMPATIBILITY: Extreme Temperatures

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes as it burns.

11. TOXICOLOGICAL INFORMATION –

Acute Oral LD₅₀: >1,000 mg/kg (Rat)

Acute Dermal LD₅₀: >5,000 mg/kg (Rabbit)

Eye Irritation: Moderate irritant

Skin Irritation: Severe irritant

Inhalation LC₅₀: >2.07 mg/L

Skin sensitization: Not a contact sensitizer

Carcinogenic Potential: Napthalene is listed by NTP as category 2, IARC is listed as category 2B

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: For terrestrial uses, do not apply directly to water, 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.

GROUND WATER ADVISORY - Metolachlor has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water.

Metribuzin has been found in ground water as a result of agricultural use. Users are advised not to apply metribuzin where the water table (ground water) is close to the surface and where the soils are very permeable, i.e., well-drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

SURFACE WATER ADVISORY - Metolachlor has the potential to contaminate surface water through ground spray drift. Under some conditions, metolachlor may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward

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adjacent surface waters, frequently flooded areas, and areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT REGULATION - <119 Gallons: Not regulated by DOT

>119 Gallons: NA 1993, Combustible liquid, N.O.S. (contains aromatic hydrocarbons), PGIII

NOTE: DOT Exception 49 CFR 173.150(f) applies.

15. REGULATORY INFORMATION

NFPA RATINGS: Least = 0 Slight = 1 Moderate = 2 High = 3 Severe = 4
Ratings for this product: Health – 2 Flammability – 2 Instability – 0 Special Hazards – None Specified

SARA Title III Hazard Category: Immediate Y Fire Y Sudden Release of Pressure N
Delayed Y Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Napthalene (CAS # 91-20-3) RQ = 100 lbs.

SARA, Title III, Section 313: Metribuzin (CAS # 21087-64-9) (14.13 %); Naphthalene (CAS# 91-20-3) (< 5%);
1,2,4-Trimethylbenzene (CAS # 95-63-6) (< 2%)

CA Proposition 65: Not listed

16. OTHER

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