

Date: 4/19/2016
Replaces: 9/12/2007

1. PRODUCT IDENTIFICATION

Product identifier on label: **CHARGER MAX ATZ**

Unity #: 10014661

Use: Herbicide

Manufacturer: Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164

Medical Emergency Phone: 1-877-424-7452

Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident Phone: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classifications: Not Applicable

Signal Word (OSHA): Not Applicable

Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Common Name | CAS Number | Concentration |
|--|-------------------|--------------|---------------|
| Ethylene Glycol | Ethylene Glycol | 107-21-1 | <5.0% |
| 2H-1,4-Benzoxazine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl- | Benoxacor | 98730-04-2 | <5.0% |
| Other ingredients | Other ingredients | Trade Secret | >30.3% |
| 2-chloro-4-ethylamino-6-isopropylamino-s-triazine | Atrazine | 1912-24-9 | 33.4% |
| Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, (S) | S-Metolachlor | 87392-12-9 | 26.3% |

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

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4. FIRST AID MEASURES

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

- Ingestion: If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin Contact: 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.
- Inhalation: 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.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

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

Special protective equipment and precautions for firefighters:

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

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7. HANDLING AND STORAGE

Precautions for safe handling:

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

Conditions for safe storage, including any incompatibilities:

Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

Occupational Exposure Limits:

| Chemical Name | OSHA PEL | ACGIH TLV | Other | Source |
|-------------------|-----------------|---|-------------------------|----------------|
| Ethylene Glycol | Not Established | 100 mg/m ³ (ceiling) [aerosol] | Not Established | Not Applicable |
| Benoxacor | Not Established | Not Established | 1 mg/m ³ TWA | Syngenta |
| Other ingredients | Not Established | Not Established | Not Established | Not Applicable |
| Atrazine | Not Established | 2 mg/m ³ TWA (inhalable) | Not Applicable | Not Applicable |
| S-Metolachlor | Not Established | Not Established | 5 mg/m ³ TWA | Syngenta |

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

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.

Eye Contact:

Where eye contact is likely, use chemical splash goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Tan liquid
Odor: Not Available
Odor Threshold: Not Available
pH: 5.6 (1% solution in deionized H₂O @ 77°F [25°C])
Melting point/freezing point: Not Available
Initial boiling point and boiling range: Not Available
Flash Point (Test Method): Not Available
Flammable Limits (% in Air): Not Available
Flammability: Not Available
Vapor Pressure: Atrazine 2.9 x 10⁽⁻⁷⁾ mmHg @ 68°F (20°C)
S-Metolachlor 2.8 x 10⁽⁻⁵⁾ mmHg @ 77°F (25°C)
Vapor Density: Not Available
Relative Density: 1.121 g/ml
Solubility (ies): Atrazine 33 mg/l @ 68°F (20°C)
S-Metolachlor 0.48 g/l @ 77°F (25°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: Not Available
Incompatible materials: None known.
Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion: Oral (LD50 Female Rat) : 3271 mg/kg body weight (based on a

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| | | |
|---------------------|--|---|
| | | substantially similar formulation) |
| Dermal: | Dermal (LD50 Rat) : | > 2020 mg/kg body weight (based on a substantially similar formulation) |
| Inhalation: | Inhalation (LC50 Rat) : | > 1.6 mg/l air - 4 hours (based on a substantially similar formulation) |
| Eye Contact: | Mildly Irritating (Rabbit) (based on a substantially similar formulation) | |
| Skin Contact: | Slightly Irritating (Rabbit) (based on a substantially similar formulation) | |
| Skin Sensitization: | Not a Sensitizer (Guinea Pig) (based on a substantially similar formulation) | |

Reproductive/Developmental Effects

Atrazine : None observed.

S-Metolachlor: Did not show reproductive effects in animal experiments.

Chronic/Subchronic Toxicity Studies

Atrazine : Cardiotoxicity in long term study with high doses (dogs).

S-Metolachlor: No adverse effect has been observed in chronic toxicity tests.

Carcinogenicity

Atrazine : Mammary tumors (female Sprague-Dawley rats), sex and strain specific.

None observed (male Sprague-Dawley rats, F-344 rats or mice).

S-Metolachlor: Did not show carcinogenic effects in animal experiments.

| Chemical Name | NTP/IARC/OSHA Carcinogen |
|--|--------------------------|
| Ethylene Glycol | No |
| 2H-1,4-Benzoxazine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl- | No |
| Other ingredients | No |
| 2-chloro-4-ethylamino-6-isopropylamino-s-triazine | IARC Group 3 |
| Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, (S) | No |

Other Toxicity Information

None

Toxicity of Other Components

Benoxacor

Results in stomach, liver, and kidney toxicity at high doses. Caused tumors in nonglandular portion of stomach of rodents (histomorphologic region not found in humans). Exposure may cause slight eye irritation. Repeated skin contact may cause a sensitization (allergic) reaction in sensitive individuals.

Ethylene Glycol

Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice. Exposure to high concentrations of mists or aerosols may result in effects on the hematopoietic system and central nervous system with headache, dizziness and drowsiness. Severe kidney damage results from swallowing large amounts of ethylene glycol.

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Other ingredients
Not Established

Target Organs

Active Ingredients

Atrazine : Heart
S-Metolachlor: Liver

Inert Ingredients

Benoxacor: Gastrointestinal tract, liver, kidney
Ethylene Glycol: Blood, kidney, CNS
Other ingredients: Not Established

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Atrazine :

Fish (Rainbow Trout) 96-hour LC50 4.5 ppm
Green Algae 5-day EC50 49 ppb
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.9 ppm
Bird (Bobwhite Quail) 12-day LD50 940 mg/kg

S-Metolachlor:

Fish (Rainbow Trout) 96-hour LC50 1.23 mg/l
Green Algae 96-hour ErC50 0.077 mg/l
Invertebrate (Water Flea) 48-hour EC50 11.24 mg/l

Environmental Fate

Atrazine :

The information presented here is for the active ingredient, atrazine.
Low bioaccumulation potential. Not persistent in soil. Stable in water. Highly mobile in soil. Will leach. Sinks in water (after 24 h).

S-Metolachlor:

The information presented here is for the active ingredient, S-Metolachlor.
Low bioaccumulation potential. Not persistent in soil. Stable in water. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

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14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA
Road Transport - Not regulated

Rail Car Shipments

Proper Shipping Name: RQ Other Regulated Substances, Liquid, N.O.S. (Ethylene Glycol)
Hazard Class: Class 9
Identification Number: NA 3082
Packing Group: PG III

Comments

Water Transport - International
< 13,500 gal.

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor, Atrazine), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor, Atrazine)
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):

1381-199

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Atrazine 33.4% (CAS No. 1912-24-9)
Ethylene Glycol <5.0% (CAS No. 107-21-1)

CERCLA/SARA 304 Reportable Quantity (RQ):

Report product spills \geq 14000 gal (based on ethylene glycol [RQ = 5000 lbs.] content in the formulation) (CERCLA)

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

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Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 1
Instability: 0
Hazard Category: A

HMIS Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

| | |
|---|----------|
| 0 | Minimal |
| 1 | Slight |
| 2 | Moderate |
| 3 | Serious |
| 4 | Extreme |
| * | Chronic |

For non-emergency questions about this product call: 1-855-494-6343

Revision Date: 4/19/2016 Replaces: 9/12/2007
Section(s) Revised: 1-16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.