

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.

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

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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.

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#### 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.

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#### 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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Date: 4/19/2016

Replaces: 9/12/2007

## 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 <sup>3</sup> (ceiling) [aerosol]	Not Established	Not Applicable
Benoxacor	Not Established	Not Established	1 mg/m <sup>3</sup> TWA	Syngenta
Other ingredients	Not Established	Not Established	Not Established	Not Applicable
Atrazine	Not Established	2 mg/m <sup>3</sup> TWA (inhalable)	Not Applicable	Not Applicable
S-Metolachlor	Not Established	Not Established	5 mg/m <sup>3</sup> 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.

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

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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 H<sub>2</sub>O @ 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<sup>(-7)</sup> mmHg @ 68°F (20°C)  
S-Metolachlor 2.8 x 10<sup>(-5)</sup> 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

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### 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

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### 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

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

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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.

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

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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

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## 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).

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## 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

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

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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

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### 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:

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

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.