

## MATERIAL SAFETY DATA SHEET

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In Case of Chemical Emergency:  
Call 1-800-424-9300 (CHEMTREC, 24 hours) OR  
In Case of Medical Emergency: Call (877) 424-7452

### 1. PRODUCT IDENTIFICATION

Product Name: **Charger MAX™**

EPA Signal Word: **Caution**

Active Ingredient(%): s-Metolachlor (82.4%) CAS No.: 87392-12-9

Chemical Name: Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, (S)

Chemical Class: Chloroacetanilide Herbicide

EPA Registration Number(s): **1381-194**

**Section(s) Revised:**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Benoxacor	Not Established	Not Established	1 mg/m <sup>3</sup> TWA***	No
Naphthalene (<=1%)	10 ppm TWA	10 ppm TWA (skin)	10 ppm TWA**	See "Toxicity", Sec. 11
s-Metolachlor (82.4%)	Not Established	Not Established	10 mg/m <sup>3</sup> TWA***	No

\*\* recommended by NIOSH

\*\*\*Occupational Exposure Limit (OEL)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications. Hazard Category: B, S

### 3. HAZARDS IDENTIFICATION

#### Symptoms of Acute Exposure

May cause eye and skin irritation.

Exposure to high vapor levels may cause headache, dizziness, numbness, nausea, incoordination, or other central nervous system effects.

#### Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases

#### Physical Properties

Appearance: Dark brown liquid

Odor: Petroleum odor

#### Unusual Fire, Explosion and Reactivity Hazards

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

## 4. FIRST AID MEASURES

Have the product container, label or Material 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.

### Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

### Medical Condition Likely to be Aggravated by Exposure

None known.

## 5. FIRE FIGHTING MEASURES

### Fire and Explosion

Flash Point (Test Method):	> 200°F (Setaflash)	
Flammable Limits (% in Air):	Lower: % Not Applicable	Upper: % Not Applicable
Autoignition Temperature:	Not Available	
Flammability:	Not Flammable	

### Unusual Fire, Explosion and Reactivity Hazards

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

### In Case of Fire

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. 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. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

## 6. ACCIDENTAL RELEASE MEASURES

### In Case of Spill or Leak

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.

## 7. HANDLING AND STORAGE

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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

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. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Skin Contact:	Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.
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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	Petroleum odor
Melting Point:	Not Applicable
Boiling Point:	Not Available
Specific Gravity/Density:	1.11 g/cm <sup>3</sup> @ 68°F (20°C)
pH:	7.2 (1% solution in H <sub>2</sub> O @ 77°F (25°C))

### Solubility in H<sub>2</sub>O

s-Metolachlor: 0.48 g/l @ 77°F (25°C)

### Vapor Pressure

s-Metolachlor: 2.8 x 10<sup>(-5)</sup> mmHg @ 77°F (25°C)

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.
Materials to Avoid:	None known.
Hazardous Decomposition Products:	Can decompose at high temperatures forming toxic gases.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies (Finished Product)

Ingestion:	<u>Slightly Toxic</u>	Oral (LD50 Rat) : 2,149 mg/kg body weight
Dermal:	<u>Slightly Toxic</u>	Dermal (LD50 Rabbit) : > 2,020 mg/kg body weight
Inhalation:	<u>Practically Non-Toxic</u>	Inhalation (LC50 Rat) : > 3.8 mg/l air - 4 hours
Eye Contact:	Moderately Irritating (Rabbit)	
Skin Contact:	Slightly Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Guinea Pig)	

### Reproductive/Developmental Effects

s-Metolachlor: None observed.

### Chronic/Subchronic Toxicity Studies

s-Metolachlor: None observed.

Carcinogenicity

s-Metolachlor: Benign liver tumors at high dose levels (female rats).

Other Toxicity Information NoneToxicity of Other ComponentsBenoxacor

Test results reported in Section 11 for the final product take into account any acute hazards related to the benoxacor in the formulation.

Naphthalene (<= 1%)

Test results reported in Section 11 for the final product take into account any acute hazards related to the naphthalene in the formulation.

Chronic overexposure to naphthalene can affect the liver, kidney, respiratory tract and blood.

Carcinogen Status:

NTP: Anticipated Carcinogen

IARC: Group 2B Possible Human Carcinogen

Target OrgansActive Ingredients

s-Metolachlor: Liver

Inert Ingredients

Benoxacor: Not Applicable

Naphthalene: Liver, kidney, respiratory tract, blood

**12. ECOLOGICAL INFORMATION**Summary of Effects

## s-Metolachlor:

Slightly to moderately toxic to fish. Slightly toxic to invertebrates. Practically non-toxic to birds and bees.

Eco-Acute Toxicity

s-Metolachlor: Bees LC50/EC50 >200 ug/bee  
 Invertebrates (Water Flea) LC50/EC50 26 ppm  
 Fish (Trout) LC50/EC50 12 ppm  
 Fish (Bluegill) LC50/EC50 3.16 ppm  
 Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,620 ppm  
 Birds (8-day dietary - Mallard Duck) LC50/EC50 > 5,620 ppm

Eco-Chronic Toxicity

s-Metolachlor: Not Available

Environmental Fate

## 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: Under certain circumstances, discarded product may exhibit TCLP hazardous characteristics. A hazardous waste determination should be done on a case by case basis.

Listed Waste: Not Applicable

## **14. TRANSPORT INFORMATION**

### DOT Classification

Ground Transport - NAFTA  
 Packages less than 3200 gal. - Not regulated.  
 Packages larger than 3200 gal.  
 Proper Shipping Name: RQ Other Regulated Substances, Liquid, N.O.S.  
 (Naphthalene)  
 Hazard Class or Division: Class 9  
 Identification Number: NA 3082  
 Packing Group: PGIII

Air Transport – NAFTA  
 Not regulated in less than 3200 gal. packages.

### B/L Freight Classification

Herbicides, NOI (NMC Class 60)

### Comments

Water Transport - International  
 Proper Shipping Name  
 < 3200 gal.: Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metholachlor), Marine Pollutant  
 > 3200 gal.: RQ Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor/Naphthalene), Marine  
 Pollutant  
 Hazard Class or Division: Class 9  
 Identification Number: UN 3082  
 Packing Group: PGIII  
 IMDG EMS#: F-A, S-F

Air Transport - International  
 Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
 (s-Metolachlor)  
 Hazard Class or Division: Class 9  
 Identification Number: UN 3082  
 Packing Group: PGIII  
 Packing Auth.: 914 Special Provision A97  
 Note: Max. inner package: Plastic - 5 liters, metal -10 liters  
 Max. single package: 450 liters

## **15. REGULATORY INFORMATION**

### EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals:

Naphthalene (<=1%) (CASNo. 91-20-3)

### California Proposition 65

Not Applicable

### CERCLA/SARA 302 Reportable Quantity (RQ)

Report product spills > 3,200 gal. (based on naphthalene [RQ = 100 lbs.] content in the formulation)

### RCRA Hazardous Waste Classification (40 CFR 261)

Under certain circumstances, discarded product may exhibit TCLP hazardous characteristics. A hazardous waste determination should be done on a case by case basis.

### TSCA Status

Exempt from TSCA, subject to FIFRA

## 16. OTHER INFORMATION

### NFPA Hazard Ratings

Health: 2  
Flammability: 1  
Instability: 0

### HMS Hazard Ratings

Health: 1  
Flammability: 1  
Reactivity: 0

0 Minimal  
1 Slight  
2 Moderate  
3 Serious  
4 Extreme

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