

SDS ID: 74530-81

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	ZONE ELITE	
Product use / type:	Herbicide	
EPA Registration No.:	74530-81	
Uses advised against / restrictions:	Refer to product label.	
Chemical name / active ingredient(s):	N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-methanesulfonamide (Sulfentrazone); and 2-chloro-6'-ethyl-N-(2-methoxy-1-methylethyl) aceto-otoluidide (Metolachlor)	
Manufacturer / Registrant:	Helm Agro US, Inc. 401 E. Jackson St., Suite 1400	
	Tampa, FL 33602	
Manufacturer's telephone:	813-621-8846	
Email:	info@helmagro.com	
Chemical emergencies:	1-800-424-9300 (Chemtrec)	

### 2. HAZARDS IDENTIFICATION

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

### Classification

Acute toxicity – inhalation	Category 4
Eye damage/irritation	Category 2B
Skin sensitization - skin	Category 1

### **EMERGENCY OVERVIEW**

Signal Word: WARNING

Pictogram:



Appearance: Yellow to dark brown Physical state: Liquid Odor: Faint sweet

### **Hazard Statements:**

- Harmful if inhaled.
- Causes eye irritation.
- May cause an allergic skin reaction.

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### **Precautionary Statements:**

- Wash thoroughly after handling. Avoid breathing mists/vapors/sprays.
- Contaminated work clothing must not be allowed out of the work place.
- Wear protective gloves.
- Use only outdoors or in a well-ventilated area.
- IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs get medical attention / advice.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Wash contaminated clothing before reuse. Call poison center or doctor if you feel unwell.
- Dispose of contents/container in accordance with local/state/federal regulations and label instructions.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-	122836-35-5	7.55
3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-		
methanesulfonamide (Sulfentrazone)		
2-chloro-6'-ethyl-N-(2-methoxy-1-methylethyl)	51218-45-2	68.25
aceto-o-toluidide (Metolachlor)		
Other ingredients	-	24.20

Values are not product specifications.

### 4. FIRST AID MEASURES

If in Eyes:	<ul> <li>Hold eye open and rinse gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
If on skin or clothing:	<ul> <li>Remove contaminated clothing and shoes.</li> <li>Rinse skin with plenty of water for 15 minutes. If irritation develops, call a poison control center or doctor for treatment advice.</li> </ul>		
If inhaled:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or get medical help, then give artificial respiration with a pocket mask or barrier</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>		
If swallowed:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>		

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First Aid Note:	Have product container or label or Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment advice.
Note to physician:	Treat symptomatically.

**5. FIRE-FIGHTING MEASURES** 

Flammable properties: Not flammable.

**Extinguishing media:** Water fog, dry chemical, foam or CO<sub>2</sub>

**Unsuitable extinguishing media:** High pressure water streams.

**Firefighting measures:** Use extinguishing media appropriate for surrounding fire.

Cool fire exposed surfaces and protect personnel with water spray. Prevent contaminated firefighting waters and spillage from entering sewers, drains and

waterways.

Protective equipment and precautions

for firefighters:

Wear full protective firefighting gear including self-

contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent).

Hazardous products of combustion: Under fire conditions may emit hydrocarbons, smoke

and oxides of carbon, nitrogen and sulfur.

**6. ACCIDENTAL RELEASE MEASURES** 

Personal precautions: Isolate and post spill area. Keep people and animals

away from spill. Wear protective gloves / clothing and eye protection. Avoid contact with eyes, skin and

clothing. Ensure adequate ventilation.

**Environmental precautions:** Dike spill to prevent further spillage if safe to do so.

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or

sanitary sewer system.

Methods for containment: Contain spill with inert material (e.g. sand, silica gel,

binder).

**Methods for cleanup:** Pick up absorbent by shovel and transfer to properly

labeled containers for disposal in accordance with regulations. Thoroughly clean area and tools with water

and bleach solution and detergent.

7. HANDLING AND STORAGE

**Precautions for safe handling:** Use only with adequate ventilation. Avoid contact with eyes,

skin and clothing. Wash thoroughly after handling and before eating, drinking, using tobacco or the toilet. Do not eat, drink,

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or smoke when using this product. Thoroughly clean personal

protective equipment after use.

Conditions for safe storage: Store and handle in accordance with good industrial hygiene

practices. Keep container tightly closed. Store in a cool and well-ventilated place in the original container. Keep out of

reach of children.

Incompatible storage situations: Separate pesticides during storage to prevent cross-

contamination of other pesticides, fertilizers, food, and feed.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this material. Commercial applicators and/or on-farm applications should refer to the product label for personal protection equipment.

**Exposure Guidelines:** 

Control Parameters:	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
Engineering controls:	Ensure adequate ventilation, especially in confined areas. Emergency eye wash/drench in work area.	
Personal protective equipment		
Eye / face protection:	Safety glasses with side-shields. If splashing is likely to occur, wear goggles.	
Body / skin protection:	Long sleeved shirt, long pants, shoes plus socks. Wash work clothing before reuse separate from regular laundry.	
Hand protection:	Wear protective gloves.	
Respiratory protection:	If handling without sufficient ventilation, wear a dust / mist filtering respirator with organic cartridge(s) or pesticide rated filters.	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Yellow to dark brown
Odor:	Faint sweet
pH:	5.22 (1% w/v aqueous solution)
Boiling point:	99.3° C / 210.7° F
Melting point:	No information available
Flash point:	>100° C / 212° F
Relative density:	1.103 g/ml
Water solubility:	Miscible

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Vapor pressure:No information available	
Dissociation constant: No information available	
Viscosity:	138.6 cP at 20° C / 39.5 cP at 40° C

10. STABILITY AND REACTIVITY

**Reactivity / chemical stability:** Stable under normal temperature and conditions.

Conditions / materials to avoid: Extreme temperatures. Strong acids, bases and

oxidizing agents.

**Hazardous decomposition products:** No hazardous decomposition products known.

Hazardous reactions: Not expected under normal conditions of handling and

use.

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

**Inhalation** Harmful if inhaled

**Eye contact** Causes transient eye irritation

Skin contact Non-irritating

**Ingestion** Not an expected route of exposure

**Product toxicological effects:** 

Acute oral LD50:Rat LD $_{50}$ : 3129 mg/kgAcute dermal LD50:Rat LD $_{50}$ : >2000 mg/kgAcute inhalation LC50:Rat LC $_{50}$ : >2.10 mg/LEye irritation:Irritating to eyesSkin irritation:Non-irritatingSensitization:Sensitizer

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Repeated or prolonged skin contact may cause an

allergic reaction.

Serious eye damage/eye irritation: Contact with eyes causes transient irritation.

Carcinogenicity: No component of this product present at levels greater

than or equal to 0.1% is listed with NTP, IARC or

OSHA.

Germ cell mutagenicity Not mutagenic

#### 12. ECOLOGICAL INFORMATION

**Environmental Hazards:** Very toxic to aquatic life with long lasting effects. Keep

out of any body of water.

**Ecotoxicity:** 96-hour LC<sub>50</sub>: 120 mg/l *Onchorhynchus mykiss* Sulfentrazone (122836-35-5) 96-hour LC<sub>50</sub>: 93.8 mg/l *Lepomis macrochirus* 

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48-hour EC<sub>50</sub>: 60.4 mg/l Daphnia magna

78-hour EC<sub>50</sub>: 31 ug/l Pseudokirchneriella subcapitata

**Ecotoxicity:** 96-hour LC<sub>50</sub>: 3.9 mg/l *Onchorhynchus mykiss* 

Metolachlor (51218-45-2)

48-hour EC<sub>50</sub>: 25.1 mg/l Daphnia magna

78-hour EC<sub>50</sub>: 0.01 mg/l Pseudokirchneriella

subcapitata

**Persistence and degradability:** Sulfentrazone: Not readily biodegradable. Subject to

photolysis.

Metolachlor: Persistent. Does not readily hydrolyze.

Bioaccumulation: Sulfentrazone: No potential for bioaccumulation.

Metolachlor: Low potential for bioaccumulation.

Mobility: Sulfentrazone: Mobile, has potential to reach ground

water.

### 13. DISPOSAL CONSIDERATIONS

**Product disposal:** Wastes resulting from the use of this product that cannot be used must

be disposed in accordance with applicable Federal, State or local

regulations at an approved waste disposal facility.

Container disposal: Triple rinse container thoroughly in accordance with EPA label

recommendations. Observe all labeled safeguards until container is destroyed to prevent unauthorized use of used container. Clean

container promptly after emptying.

### 14. TRANSPORT INFORMATION

**U.S. DOT:**Not subject to DOT regulation in packages less than

119 gallons (450 liters).

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Sulfentrazone, Metolachlor), 9, III,

Marine pollutant.

#### 15. REGULATORY INFORMATION

### **U.S. Federal Regulations:**

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:

Signal word: Caution EPA Registration No.: 74530-81

Hazards to Humans and Domestic Animals

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco

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or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**TSCA:** Exempt, regulated under FIFRA

SARA 311/312: Acute health
SARA 313: None listed
CERCLA: None listed

### **U.S. State Regulations:**

### **State Right-to-Know Regulations:**

Component	MA	NJ	PA	NY
Metolachlor	-	X	•	-

**California Proposition 65:** This product contains no substances known to the state of California to cause cancer and/or reproductive/developmental effects.

#### **16. OTHER INFORMATION**

NFPA Ratings:	Health	Fire	Instability
	1	0	0

Revision No.: 1.0

Revision Date: 10-April-2018
Revision Note: 10-April-2018

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; CST - Centistokes; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; GHS - Global Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Association; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

### Other information / Disclaimer

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End of Safety Data Sheet