



# SAFETY DATA SHEET

SDS ID: 74530-97

## 1. IDENTIFICATION

**Product Name:** HELMET Herbicide  
**EPA Registration Number:** 74530-97  
**Date of Preparation:** March 19, 2021

### Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Herbicide
Uses Advised Against	It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

<b>Manufacturer/Supplier:</b>	HELM Agro US, Inc. 401 E Jackson St., Suite 1400 Tampa, FL 33602
<b>Phone Number:</b>	813-621-8846
<b>Email:</b>	<a href="mailto:info@helmagro.com">info@helmagro.com</a>
<b>Emergency Phone Number:</b>	<b>Chemtrec:</b> 1-800-424-9300

## 2. HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1
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### Label elements

This chemical is a pesticide product registered by the United States 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 (SDS) and for workplace labels of non pesticide chemicals. The labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol(s)



**WARNING**

Signal Word(s)

Hazard Statement(s)

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.

Precautionary Statement(s)

Avoid breathing dust/fume/gas/mist/vapours/spray  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash affected skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
IF INHALED: Get medical advice/attention if you feel unwell.  
IF SWALLOWED: Get medical advice/attention if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS			
Composition/information on ingredient	%W/W	CAS Number	Hazard Statement(s)
Metolachlor	81 - 87	51218-45-2	Flam. Liq. 4; H227 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Proprietary emulsifier	9 - 11	Trade Secret	Skin Irrit. 2; H315 Eye Irrit. 2; H319
Acetamide, 2,2-dichloro-N,N-di-2-propen-1-yl-	2.1 - 2.3	37764-25-3	Skin Irrit. 2; H315 Eye Irrit. 2; H319

**Additional Information** – The exact composition is being withheld as trade secret in accordance with OSHA 29 CFR 1910.1200.

#### 4. FIRST-AID MEASURES

##### Description of first aid measures

Inhalation	Not normally required. Get medical advice/attention if you feel unwell.
Skin Contact	Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Not normally required. Get medical advice/attention if you feel unwell.
<b>Most important symptoms and effects, both acute and delayed</b>	May cause an allergic skin reaction.
<b>Indication of any immediate medical attention and special treatment needed</b>	Call a POISON CENTER or doctor/physician if you feel unwell.

#### 5. FIRE-FIGHTING MEASURES

##### Extinguishing Media

-Suitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media

Do not use water jet.

##### Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.

##### Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

Do not get in eyes. Avoid contact with skin. Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

##### Environmental precautions

Avoid release to the environment.

##### Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery. Collect spillage. Wash the spillage area with water. Avoid release to the environment.

##### Reference to other sections

None

##### Additional Information

None

**7. HANDLING AND STORAGE**

**Precautions for safe handling** Do not handle until all safety precautions have been read and understood. Do not get in eyes. Avoid contact with skin. Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection.

**Conditions for safe storage, including any incompatibilities**

-Storage temperature Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

-Incompatible materials Strong oxidizing agents. Strong acids / bases.

**Specific end use(s)** Herbicide

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Occupational Exposure Limits**

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	-----	-----	-----	-----	-----	-----

**Exposure controls**

**Appropriate engineering controls** Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure course spray only.

**Personal protection equipment**

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other) Gloves (PVC, Neoprene, or Natural rubber).



Respiratory protection Not normally required.



Thermal hazards Not normally required.

**Environmental Exposure Controls** Do not allow to enter drains, sewers or watercourses.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

Appearance	Liquid
Color.	Pale brown
Odor	Aromatic
Odor Threshold (ppm)	Not available
pH (Value)	4.5
Melting Point/Freezing Point C)	Not available
Boiling point/boiling range (°C)	Not available
Flash Point (°C)	> 103.4. (> 218.1 °F)

Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour Pressure (mmHg)	Not applicable
Vapour Density (Air=1)	Not available
Density (g/ml)	Not available
Specific Gravity	1.097 (9.15 lb/gal)
Solubility (Water)	488 mg/l @ 25 °C
Solubility (Other)	miscible in various solvents
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	34.12 @ 40 °C
Explosive properties	Not explosive
Oxidizing properties	Combustible; Incompatible with strong oxidizing agents
<b>Other information</b>	Not available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Hydrolysed by strong alkalis and strong mineral acids.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Humidity, high temperatures
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids / bases.
<b>Hazardous decomposition product(s)</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours: acrid smoke. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds.

**11. TOXICOLOGICAL INFORMATION**

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

**Information on toxicological effects**

<b>Acute toxicity</b>	Oral: LD50 >2000 mg/kg -bw Dermal: LD50 >5000 mg/kg -bw Inhalation: LC50 >2.08 mg/l (Aerosol), 4-hr. rat
<b>Irritation/Corrosivity</b>	Causes skin irritation. Causes serious eye irritation.
<b>Sensitization</b>	May cause an allergic skin reaction.
<b>Repeated dose toxicity</b>	No data
<b>Carcinogenicity</b>	No data

NTP	*IARC	ACGIH	OSHA	*NIOSH
No.	No.	No.	No.	No.

<b>Mutagenicity</b>	Not to be expected
<b>Reproductive toxicity</b>	Not to be expected

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Short term	EC50 (96 hour): 3.9 - 10 mg/L (Fish) EC50 (48 hour): 25.1 mg/L (Daphnia magna) EC50 (72 hour): <1 mg/L (aquatic plants), estimated.
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Long Term	NOEC = 0.78 ppm (Fish)
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<b>Persistence and degradability</b>	Not available
<b>Bioaccumulative potential</b>	Not available
<b>Mobility in soil</b>	Not available
<b>Results of PBT and vPvB assessment</b>	Not available
<b>Other adverse effects</b>	None known.

**13. DISPOSAL CONSIDERATIONS**

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
<b>Additional Information</b>	None known.

**14. TRANSPORT INFORMATION**

	<b>Land transport (U.S. DOT)</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>UN number</b>		UN 3082	UN 3082
<b>Proper Shipping Name</b>	Not Regulated	Environmentally hazardous substance, liquid, n.o.s. (Metolachlor)	
<b>Transport hazard class(es)</b>		9	9
<b>Packing group</b>		III	III
<b>Hazard label(s)</b>		Marine Pollutant	Marine Pollutant
<b>Environmental hazards</b>		Yes	Yes
<b>Special precautions for user</b>		None Assigned	None Assigned
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> Not applicable			

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**TSCA (Toxic Substance Control Act) - Inventory Status:** This product is regulated under FIFRA as a pesticide and, therefore, is not subject to TSCA. It is a violation of Federal Law to use this product for purposes other than a pesticide.

**EPA FIFRA Information for SDS Section 15 (Regulatory Information):**

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non pesticide chemicals.

The hazard information required on the pesticide label is reproduced below:

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

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

**PERSONAL PROTECTIVE EQUIPMENT (PPE)****Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pant
- Chemical-resistant gloves: made of Barrier Laminate, Butyl Rubber,  $\geq 14$  mils, Nitrile Rubber  $\geq 14$  mils, Neoprene Rubber  $\geq 14$  mils, Natural Rubber  $\geq 14$  mils, Polyethylene, Polyvinyl Chloride (PVC)  $\geq 14$  mils, or Viton  $\geq 14$  mils.
- 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.

**User Safety Recommendations****Users should:**

- Wash hands after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet
- Remove clothing/PPE 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.

**Engineering Control Statements**

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner

that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4)). When using the closed system, the mixers and loaders PPE requirements may be reduced or modified as specified in the WPS. 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.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

#### Groundwater Advisory

This chemical is known to leach through soil into groundwater 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 groundwater contamination.

#### Surface Water Advisory

Metolachlor can 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 adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow groundwater, 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 over-laying tile drainage systems that drain to surface water.

#### Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

#### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

#### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	----	----	----	----

#### Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None	----	----	----

#### 16. OTHER INFORMATION

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H227: Combustible liquid.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

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