



SAFETY DATA SHEET

SDS ID: 74530-73

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	HELMET SPC
Product use / type:	Herbicide
EPA Registration No.:	74530-73
Chemical name / active ingredient(s):	Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide
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

EMERGENCY OVERVIEW

Signal Word: WARNING

Pictogram:



Appearance: Light amber

Physical state: Liquid

Odor: Mild, hydrocarbon-like

Hazard Statements:

- Harmful if inhaled.
- Causes eye irritation

Precautionary Statements:

- Avoid breathing dusts / mists / spray.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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 attention.

SAFETY DATA SHEET

HELMET SPC

SDS ID: 74530-73

- Call a poison center / doctor if you feel unwell.

Other Information / Potential Hazards:

Contact with skin may cause irritation.

Toxic to aquatic life with long lasting effects.

4.6% of the mixture consists of substances of unknown acute toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight % **
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	51218-45-2	88.2
Other ingredients	-	11.8

** Concentration of components withheld as a trade secret. Values are not product specifications.

4. FIRST AID MEASURES

If on skin or clothing:	<ul style="list-style-type: none">• Remove contaminated clothing and shoes.• Rinse skin immediately with plenty of water for 15 or 20 minutes.• Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Rinse mouth with water. Have person sip glass of water if able to swallow.• Do not induce vomiting unless told by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If in Eyes:	<ul style="list-style-type: none">• Hold eye open and rinse gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or get medical help, then give artificial respiration, preferably with the aid of a pocket mask equipped with a one-way valve.• Call a poison control center or doctor for further treatment advice.
First Aid Note:	<ul style="list-style-type: none">• Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIRE-FIGHTING MEASURES

Flammable properties:	Not flammable.
Extinguishing media:	Water fog, dry chemical, foam or CO ₂
Unsuitable extinguishing media:	High pressure water streams.

SAFETY DATA SHEET

HELMET SPC

SDS ID: 74530-73

- Firefighting measures:** Use extinguishing media appropriate for surrounding fire. 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 decomposition products:** Under fire conditions, oxides of carbon and nitrogen. May release irritating and toxic vapors due to thermal decomposition.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Isolate and post spill area. Wear protective gloves / clothing and eye protection. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation.
- Environmental precautions:** Prevent further spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not flush into drains, 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 mechanically by shovel and transfer to properly labeled containers for disposal.

7. HANDLING AND STORAGE

- Precautions for safe handling:** Use only out doors and with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.
- Precautions 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.
- Incompatible storage situations:** Separate pesticides during storage to prevent cross-contamination of other pesticides, fertilizers, food, and feed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Guidelines:

Exposure Guidelines:	This product does not contain hazardous substances with occupational exposure limits established by the region specific regulatory bodies.
Engineering controls:	Emergency eye wash/drench in work area. Emergency

SAFETY DATA SHEET

HELMET SPC

SDS ID: 74530-73

	shower or suitable water supply near the work area. Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye / face protection:	Chemical safety goggles.
Body / skin protection:	Long sleeved shirt, long pants, shoes plus socks. Wash work clothing before reuse.
Hand protection:	Wear chemical resistant gloves / hand protection.
Respiratory protection:	If handling without sufficient ventilation, wear mist filtering respirator with organic cartridge(s) or pesticide rated filters.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Light amber
Odor:	Mild, hydrocarbon-like
pH:	6.83 at 20° C (1% aqueous solution)
Melting point:	Not applicable
Boiling point	>269° C
Flash point:	Not flammable
Relative density:	1.1 g/ml at 20° C
Water solubility:	Miscible
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Reactivity / chemical stability:	Stable under normal temperature and conditions.
Conditions / Materials to avoid:	Extreme temperatures, sparks and fire. Strong acids and oxidizers.
Hazardous decomposition products:	Under fire conditions: oxides of carbon, nitrogen and sulfur.
Hazardous reactions:	Not expected under normal conditions of handling and use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation:	Harmful if inhaled.
Ingestion:	No information available
Eye contact:	Causes eye irritation
Skin contact:	May cause skin irritation to susceptible persons.

SAFETY DATA SHEET

HELMET SPC

SDS ID: 74530-73

Symptoms: Contact with eyes may cause temporary burning.

Information on component toxicological effects:

Metolachlor (51218-45-2)

Acute oral LD50: Rat LD₅₀: >2000 mg/kg
Acute dermal LD50: Rat LD₅₀: >2000 mg/kg
Acute inhalation LC50: Rat 4-hr LC₅₀: >3.2 mg/L
Eye irritation: Minimally irritating
Skin irritation: Non-irritating.
Sensitization: Not a sensitizer.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is listed with NTP, IARC or OSHA.

Mutagenic effects: Not mutagenic.

Acute toxicity estimate (oral) >2000 mg/kg

12. ECOLOGICAL INFORMATION

Environmental Hazards: Toxic to aquatic life with long lasting effects. Keep out of any body of water.
Metolachlor (51218-45-2)

Ecotoxicity: 96-hour LC₅₀: 3.9 mg/l *Onchorhynchus mykiss*
Metolachlor (51218-45-2) 48-hour EC₅₀: 25.1 mg/l *Daphnia magna*
96-hour EC₅₀: 0.01 mg/l *Pseudokirchneriella subcapitata*

Persistence and degradability: No information available.
Bioaccumulation: Low potential for bioaccumulation.
Environmental fate:

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. Do not dispose of waste material into the environment.

Container disposal: Emptied container retains product residue. Observe all labeled safeguards until container is destroyed or offered for recycling. 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.(Metolachlor), 9, III

15. REGULATORY INFORMATION

SAFETY DATA SHEET

HELMET SPC

SDS ID: 74530-73

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.: 74530-73

Hazards to Humans and Domestic Animals

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using toilet. Remove and wash contaminated clothing before use.

Environmental Hazards

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

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

State:	MA	NJ	PA	RI
Metolachlor	-	X	-	-

California Proposition 65: This product does not contain substances known to the state of California to cause cancer and/or reproductive/developmental effects.

16. OTHER INFORMATION

<u>NFPA Ratings:</u>	Health	Fire	Instability
	1	1	0

Revision No.: 1.0
Revision Date: 18 January 2017
Revision Note: Initial release

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

SAFETY DATA SHEET

HELMET SPC

SDS ID: 74530-73

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

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

End of Safety Data Sheet