

SDS ID: 74530-74

1. PRODUCT AND COMPANY IDENTIFICATION

| Product name: | HELMET | | |
|---------------------------------------|---|--|--|
| Product use / type: | Herbicide | | |
| EPA Registration No.: | 74530-74 | | |
| 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 |
|-----------------------------|------------|
|-----------------------------|------------|

EMERGENCY OVERVIEW

Signal Word: WARNING

Pictogram:



Appearance: Dark amber to brown Physical state: Liquid Odor: Mild, hydrocarbon-like

Hazard Statements:

Harmful if inhaled

Precautionary Statements:

- Avoid breathing dusts / mists / fumes / vapors / spray.
- Use only outdoors or in a well-ventilated area.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a poison center / doctor if you feel unwell.

Other Information / Potential Hazards:

May cause eye irritation.

Toxic to aquatic life with long lasting effects.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight % ** |
|---|------------|-------------|
| Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)- | 51218-45-2 | 84.4 |
| N-(2-methoxy-1-methylethyl) acetamide | | |
| Other ingredients | - | 15.6 |

^{**} Values are not product specifications.

4. FIRST AID MEASURES

| If inhaled: | 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 oneway valve. Call a poison control center or doctor for further treatment advice. |
|-------------------------|---|
| If on skin or clothing: | Remove contaminated clothing and shoes. Rinse skin with plenty of water for 15 or 20 minutes. If irritation develops, call a poison control center or doctor for treatment advice. |
| If in Eyes: | 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 swallowed: | Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. |
| First Aid Note: | 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. May support combustion at elevated

temperatures.

Extinguishing media: Water fog, dry chemical, foam or CO₂

Unsuitable extinguishing media: High pressure water streams.

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 Wear full protective firefighting gear including self-

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for firefighters: contained breathing apparatus pressure demand

(MSHA/NIOSH approved or equivalent).

Hazardous decomposition products: Under fire conditions: oxides of carbon, nitrogen and

sulfur. 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 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 | |
| | shower or suitable water supply near the work area. Ensure adequate ventilation, especially in confined areas. | |
| | | |
| Personal protective equipment | | |
| Eye / face protection: | Tightly fitting chemical safety goggles. | |

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| Body / skin protection: | Long sleeved shirt, long pants, shoes plus socks. Coveralls over short-sleeved shirt and short pants. Wash work clothing before reuse, separately from other laundry. | |
|-------------------------|---|--|
| | | |
| Hand protection: | Wear chemical-resistant gloves / hand protection. | |
| Respiratory protection: | If handling without sufficient ventilation, wear mis filtering respirator with organic cartridge(s) or pesticid rated filters. | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state: | Liquid |
|-------------------|-------------------------------------|
| Appearance: | Dark amber to brown |
| Odor: | Mild, hydrocarbon-like |
| pH: | 5.91 at 20° C (1% aqueous solution) |
| Melting point: | Not applicable |
| Boiling point | >242° C |
| Flash point: | Not flammable |
| Relative density: | 1.116 g/ml at 20° C |
| Water solubility: | Miscible in water |
| Viscosity: | 172.8 centistokes at 20° C |

10. STABILITY AND REACTIVITY

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

Conditions / Materials to avoid: Extreme heat, sparks and fire.

Hazardous decomposition products: No information available.

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: Maybe harmful if swallowed. **Eye contact:** May cause eye irritation.

Skin contact: May cause skin irritation to susceptible persons.

Symptoms: Contact with eyes will cause burning.

Information on component toxicological effects:

Metolachlor (51218-45-2)

Acute oral LD50:

Acute dermal LD50:

Acute inhalation LC50:

Rat LD₅₀: >2000 mg/kg
Rat LD₅₀: >2000 mg/kg
Rat LD₅₀: >2000 mg/kg
Rat 4-hr LC₅₀: >3.2 mg/L

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Eye irritation:Minimally irritatingSkin 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

2.8% of the mixture consists of substances of unknown acute toxicity.

12. ECOLOGICAL INFORMATION

Environmental Hazards: Toxic to aquatic life with long lasting effects. Keep out

of any body of water.

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.

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: 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

| | Land transport (U.S. DOT) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|------------------------------|------------------------------|---|------------------------------|
| UN number | | UN 3082 | UN 3082 |
| Proper Shipping Name | Not Regulated | Environmentally hazardous substance, liquid, n.o.s. (Metolachlor) | |
| Transport hazard class(es) | | 9 | 9 |
| Packing group | | III | III |
| Hazard label(s) | | Marine Pollutant | Marine Pollutant |
| Environmental hazards | | Yes | Yes |
| Special precautions for user | | None Assigned | None Assigned |

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

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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.:

74530-74 Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. This product may cause skin sensitization reactions in some people. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

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 wash waters 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 | - | Χ | - | - |

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

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16. OTHER INFORMATION

| NFPA Ratings: | Health | Fire | Instability |
|---------------|--------|------|-------------|
| | 2 | 1 | 0 |

Revision No.: 2.0

Revision Date: 26 January 2023

Revision Note: Updated Section 14 to match HELMET Herbicide

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