



SAFETY DATA SHEET (SDS) ID: EPA Reg. No. 74530-74, HELMET

SECTION 1: Product and Company IDs

Product name: HELMET
Product use / type: Herbicide
Restrictions on use: See product label.
SDS ID: EPA Reg. No.: 74530-74
Chemical name / active ingredients: See Section 3.
Manufacturer / Registrant Info:
HELM Agro US, Inc. 401 E. Jackson St.
Suite 1600, Tampa, FL 33602
(813)-621-8846, info@helmagro.com
Chemical Emergency Number: 1-800-424-9300 (Chemtrec)

SECTION 2: Hazard Communication

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

Signal Word: Warning. **Pictograms:**



Acute Toxicity, Inhalation

Category 4

Hazard Statements:

- Harmful if inhaled.

Precautionary Statements:

- Refer Section 4, First Aid Measures.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wash thoroughly after handling.
- Avoid breathing mist/vapors/spray.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not eat drink or smoke when using this product.
- Wear protective gloves/eye protection.
- Use only outdoors or in a well-ventilated area.
- Wear respiratory protection.
- If experiencing respiratory symptoms: Immediately call a poison center.
- If exposed or concerned, get medical attention. Call POISON CENTER or doctor/physician if you feel unwell.
- Refer Sections 7 and 13.

Other Information / Potential Hazards:

- May cause eye irritation.
- Toxic to aquatic life with long lasting effects.

SECTION 3: Ingredient Composition

Chemical Name	CAS #	% Composition (exact values may be withheld as trade secrecy)
Metolachlor; 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	51218-45-2	84.4
Other:	N/R as trade** secrecy	**

** Values are not product specifications.

SECTION 4: First Aid Measures

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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. **If on skin or clothes:** Wash and remove contaminated clothing and shoes. Wash before reuse. Rinse skin immediately with plenty of water for 15 or 20 minutes. Call a poison control center/doctor for treatment advice. Sensitized persons should avoid reuse. **If in eyes:** Hold eye open and rinse slowly and 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:** 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:** Have this safety data sheet, the product container or label with you when calling a poison control center or doctor or going for treatment. **Physician:** Treat symptomatically. Contains: Metolachlor. May produce an allergic reaction in persons already sensitized.

SECTION 5: Fire Fighting Measures

Flammable

properties: Not flammable. **Extinguishing media:** Water fog, dry chemical, foam or CO₂. **Unsuitable extinguishing media:** High pressure water streams. **Firefighting measures:** Evacuate area. Use extinguishing media appropriate for surrounding fire. Prevent contaminated firefighting waters and spillage from entering sewers, drains and waterways. Contain run-off water with temporary dike. Prevent use of contaminated buildings, area and equipment until decontamination. **Protective equipment and precautions for firefighters:** Wear full protective firefighting gear including self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent). Decontaminate equipment after use. **Hazardous decomposition products:** Under fire conditions: oxides of carbon, nitrogen and sulfur. May release irritating and toxic vapors due to thermal decomposition.

SECTION 6: Accidental Release Measures

Personal precaution:

Isolate and post, and clean spill area. Keep unnecessary personnel, pets and livestock from spill area. Wear protective gloves / clothing and eye protection. Avoid breathing, wear protection. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. See section 8 for personal protective equipment. **Environmental precautions:** 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. Avoid unintentional releases to the environment. Report spills as required by local and federal regulations. **Methods for containment:** Contain spill with inert material (e.g. sand, silica gel, binder). Clean immediately. **Methods for cleanup:** Pick up absorbent by shovel and transfer to properly labeled containers for disposal in accordance with regulations. Observe label for further safeguards, containment, and disposal.

SECTION 7: Handling and Storage

Precautions for safe

handling: Wear protective attire. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid contamination of work clothing; remove and clean after handling. **Precautions for safe storage:** Store and handle in accordance with good industrial hygiene practices. Keep container tightly closed. Store in original container in a cool, dry and well-ventilated place away from children and animals. Keep away from incompatible materials, heat, and direct sunlight. **Incompatible storage situations:** Store product in original container only. Keep container closed when not in use, away from food or feed, fertilizer and other pesticides. Do not put formulation or spray solution in food or drink containers. Store in a cool, dry place and avoid excess heat. Protect container from physical damage. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment. Keep away from strong oxidizing agents.

SECTION 8: Exposure Control / Protection

The following

recommendations for exposure controls and personal protection are intended for the manufacture, formulation, and packaging of this material. All forms of application should refer to the product label for personal protection equipment. This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies. **Engineering controls:** Emergency eye wash/drench. Shower or suitable water supply near the work area. Ensure adequate ventilation or provide local exhaust. **Personal protective equipment eye/face protection:** Safety glasses with side-shields. If potential for eye contact to occur, wear chemical tight goggles. **Body/skin protection:** Long sleeved shirt, long pants, shoes plus socks. Applicators must wear chemical resistant clothing and footwear plus socks. Wash work clothing before reuse. Launder separately from other laundry. **Hand protection:** Wear chemical resistant gloves / hand protection. **Respiratory protection:** If handling without sufficient ventilation or excess airborne exposure, wear a dust/mist filtering respirator with organic cartridge(s) or pesticide rated filters. Consult personal protective equipment manufacturers recommendations for cleaning and maintenance.



SECTION 9: Physical & Chemical Properties

Physical state: Liquid.

Appearance: Dark amber to brown. **Odor:** Mild, hydrocarbon-like. **pH:** 5.91 (1% solution). **Melting point:** N/A. **Boiling point:** >242° C. **Flash point:** Not flammable. **Explosive properties:** N/A. **Autoignition temperature:** No information available. **Oxidizing properties:** No information available. **Relative density:** 1.116 g/mL. **Water solubility:** Miscible. **Vapor pressure:** N/A. **Viscosity:** 172.8 centistokes at 20° C. **Partition coefficient:** N/A. **Other as commonly listed:** No info available.

SECTION 10: Stability & Reactivity

Reactivity / chemical

stability: None expected. Stable under normal temperature and conditions. **Conditions / Materials to avoid:** Extreme heat, sparks, incompatible agents, strong oxidizers. Avoid contact with oxidizing agents, and bases. **Hazardous decomposition products:** No info available. **Hazardous reactions:** Not expected under normal use.

SECTION 11: Toxicological Information

See Section 4 for

information on likely routes of exposure and effects. Harmful if inhaled. May be harmful if swallowed. May cause eye irritation; contact will cause burning. May cause skin irritation to susceptible person **Product toxicology: Acute oral LD50:** Rat LD50: >2000 mg/kg. **Acute dermal LD50:** Rat LD50: >2000 mg/kg. **Acute inhalation LC50:** Rat LC50: >3.2 mg/L. **Skin corrosion/irritation:** Non-irritating. **Eye irritation:** Minimal. **Respiratory or skin sensitization:** Not considered a skin sensitizer. **Germ cell mutagenicity:** Not available. **Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is listed with NTP, IARC or OSHA. **Reproductive toxicity:** Not available. **STOT - single exposure:** Not available. **STOT - repeated exposure:** Not available. **Aspiration hazard:** Not available. **Mutagenicity:** Not to be expected. Note: 2.8% of the mixture consists of substances of unknown acute toxicity.

SECTION 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.

SECTION 13: Disposal Information

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. Keep out of drains, sewers, ditches and water ways. **Container disposal: Emptied container retains product residue.** Observe all labeled safeguards until container is destroyed to prevent unauthorized use of used container. Clean container promptly after emptying. Refer product label. See Section 15.

SECTION 14: Transport Information

Not subject to U.S.

DOT regulation. U.S. DOT for packages greater than 119 gallons (450 liters), IMDG, IATA: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Metolachlor), 9, PG III, Marine pollutant.

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

SECTION 15: Regulatory Information

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.

Read EPA registered product label and advisories, EPA Registration No.: 74530-74.

SARA 311/312 Hazard Categories: Acute health. Refer Section 2. **SARA 313:** None listed. **CERCLA:** N/A. **TSCA:** Components listed or exempt. **Clean Water Act:** N/A.

State Right-to-Know Regulations

State:	MA	NJ	PA	RI
Metolachlor	-	X	-	-

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

SECTION 16: Other Information

NFPA Ratings:	Health = 2	Fire = 1	Instability = 0
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Acronyms which may or may not be referenced: 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; FIFRA - Federal Insecticide, Fungicide and Rodenticide Act; 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; MP - Marine Pollutant; 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.

Revision Date: December 5th, 2023. **Revision no. 3. Reason for Revision:** SDS review and truncate. Confirm/Update Section 14. Review, truncate, and/or update Sections 2, 15 (PRN 2012-1), 16. Address change. Other edits/updates.

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