

SAFETY DATA SHEET (SDS) ID: EPA Reg. No. 74530-97, HELMET Herbicide

SECTION 1: Product and Company IDs

Product name: HELMET Herbicide Product use / type: Herbicide Restrictions on use: See product label. SDS ID: EPA Reg. No.: 74530-97

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:



 Skin Sensitization
 Category 1

 Skin Irritation
 Category 2

 Eye Irritation
 Category 2

 Combustible liquid
 Category 4

 Inhalation
 Category 4

Hazard Statements:

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

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. Contaminated work clothing should not be allowed out of the workplace.
- 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.
- In case of fire: Extinguish with carbon dioxide, dry chemical, foam or water spray.
- Refer Sections 7 and 13

Other Information / Potential Hazards:

Very toxic to aquatic life with lasting effect...

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	~81-87
Emulsifier	Proprietary**	N/A**
Acetamide, 2,2-dichloro-N,N-di- 2-propen-1-yl-	37764-25-3	2.1-2.3
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: May cause an allergic skin reaction. 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 for further treatment. Physician: Treat symptomatically. Contains: Metolachlor. May produce an allergic reaction in persons already sensitized.

SECTION 5: Fire Fighting Measures

Flammable

properties: Combustible liquid. Extinguishing media: Water fog, dry chemical, foam or CO2. Unsuitable extinguishing media: High pressure water streams. Do not use water jet. 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: Combustion or thermal decomposition will evolve toxic and irritant vapors. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.

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 wither 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. Wear respiratory protection in case i inadequate 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, strong acids and strong bases. 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, acids, and bases.

SECTION 8: Exposure Control / Protection

he 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. Do not aerosolize or atomize to produce inhalable-size particles. **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

SECTION 9: Physical & Chemical Properties

Physical state: Liquid.

Appearance: Pale brown. Odor: Aromatic. pH: 4.5. Meting point: No available. Boiling point: No information available. Flash point: > 103.4. (> 218.1 °F) . Explosive properties: Not explosive. Autoignition temperature: No information available. Oxidizing properties: No information available. Relative density: 1.097 (9.15 lb/gal). Water solubility: 488 mg/l @ 25 °C. Miscible in various solvents. Vapor pressure: N/A. Viscosity: 34.12 at 40° C. Partition coefficient: N/A. Other as commonly listed: No info available. Other: Combustible; Incompatible with strong oxidizing agents.

SECTION 10: Stability & Reactivity

Reactivity / chemical

stability: Stable under normal temperature and conditions. Hydrolyzed by strong alkalis and strong mineral acids. Conditions / Materials to avoid: Humidity Extreme heat, sparks, incompatible agents, strong oxidizers, Avoid contact with oxidizing agents, acids, and bases. Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapors: acid smoke. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Hazardous reactions: Not expected under normal use.

SECTION 11: Toxicological Information

See Section 4 for

information on likely routes of exposure and effects. May be harmful if inhaled. Product toxicology: Acute oral LD50: Rat LD50: >2000 mg/kg. Acute dermal LD50: Rat LD50: >5000 mg/kg. Acute inhalation LC50: Rat LC50: >2.08 mg/L. Irritation/Corrosivity: Causes skin irritation. Causes serious eye irritation. Sensitization: May cause an allergic skin reaction. Repeated dose toxicity: No data. Carcinogenicity: No data. Mutagenicity: Not to be expected. Reproductive toxicity: Not to be expected.

SECTION 12: Ecological Information

Hazards: Very toxic to aquatic life with long lasting effects. Keep out of any body of water. 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. Long Term: NOEC = 0.78 ppm (Fish). Persistence and degradability: Not listed. Bioaccumulative potential: Not determined. Mobility in soil: Not determined. Results of PBT and vPvB assessment: N/A. Other adverse effects: None known

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: Observe all labeled safeguards until container is destroyed to prevent unauthorized use of used container. 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.: 74530-97. Hazards to Humans and Domestic Animals: 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. 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. Refer label Groundwater Advisory. Refer label Surface Water

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

TSCA: Components listed or exempt. SARA 311/312 Hazard Categories: None listed. Refer Section 2. SARA 313: None listed. SARA 302: None listed CERCLA: N/A. TSCA: Components listed or exempt. Clean Water Act: N/A. California Proposition 65: Not listed.

SECTION 16: Other Information

NFPA	Health = 2	Fire = 1	Instability = 0
Ratings:			•

Ratings:

Acronyms which may or may not be referenced. ACGIH - American Conference of Governmental Industrial Hyglenists
AL - Australia; BOD - Blochemical Orgene Demand, C - Colsius; CA - Canada; CAS - Chemical Abstracts Service;
CERCIA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled
Products Regulations; CST - Centistokes; DFG - Deutsche Forschungsgemeinschaft; DGT - Department of
Transportation; DSL - Domestic Substances; EFG - European Economic Community, EINECS - European Inventory
of Existing Commercial Chemical Substances; EFA - Environmental Protection Agency; EU - European Inventory
of Existing Commercial Chemical Substances; EFA - Environmental Protection Agency; EU - European Inventory
of Existing Commercial Chemical Substances; EFA - Environmental Protection Agency; EU - European Inventory
international Marintim Protection of Community - EINECS - European Inventory
Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG International Marintime Dangerous Goods; IP - Japan; Kow - Octanolivater partition conflicient; KF - Kores; LEL - Lower
Explosive Limit; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MP- Marine
Pollutant; NPFA - National Filer Protection Association; NIOSH - National Institute for Coccupational Safety and Health;
NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA Coccupational Safety and Health;
NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA Coccupational Safety and Health;
NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA Coccupational Safety and Health;
NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA Coccupational Safety and Health;
NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSH

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.

Disclaimer: Use this information only as a supplement to other information; make independent determinations as to the suitability and completeness of this information. No guarantee expressed or implied is made by HELM Agro US, INC. or its affiliates as to the results to be obtained based upon use of the information provided herein, or to any liability arising out of the use of this information.
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.