

SAFETY DATA SHEET (SDS) ID: EPA Reg. No. 74530-71, Argos Herbicide

SECTION 1: Product and Company IDs

Product name: Argos Herbicide Product use / type: Herbicide Restrictions on use: See product label. SDS ID: EPA Reg. No.: 74530-71

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 not

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

Signal Word: N/A. Pictograms: N/A.

Hazard Statements (optional):

None listed.

Precautionary Statements (optional):

- 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.
- 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 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 (optional):

- Contact with eyes may cause mild irritation.
- May be harmful if swallowed.
- Read entire SDS and product label for adequate safety, use. application, storage, disposal and regulatory information.

SECTION 3: Ingredient Composition

Chemical Name	CAS#	% Composition (exact values may be withheld as trade secrecy)
Mesotrione: 2-[4- (Methylsulfonyl)-2- nitrobenzoyl]-1,3- cyclohexanedione	104206-82-8	40.0
Ethylene glycol	107-21-1	<15.0**
Other:	N/R as trade** secrecy	>45.0**

^{**} 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 $% \left(\mathbf{r}\right) =\left(\mathbf{r}\right)$ 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. I 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.

SECTION 5: Fire Fighting Measures

Flammable

properties: Not flammable. Extinguishing media: Water fog, dry chemical, alcohol resistant 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: Oxides of carbon and nitrogen. 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 and transfer to properly labeled containers for disposal. Dust deposits should not be allowed to accumulate on surfaces. Pick up absorbent by shovel and transfer to properly labeled containers for disposal in accordance with regulations.

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. **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 of 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.

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:

Viscous liquid. Appearance: Off-white to beige. Odor: Mild, aromatic-like. pH: 3.16 at 20oC in 1% w/v aqueous solution. **Melting point**: Not applicable. **Boiling** point: 186° C / 367° F. Flash point: Not flammable. Explosive properties: N/A Autoignition temperature: No information available. Oxidizing properties: No information available. Relative density: 1.19 g/mL. Water solubility: Miscible.



Vapor pressure: N/A. Viscosity: 64 - 112 mPa at 20° C. Partition coefficient: N/A. Other as commonly listed: No info available.

SECTION 10: Stability & Reactivity

Reactivity / chemical

stability: Stable under normal temperature and conditions. Conditions / Materials to avoid: Extreme heat, sparks and fire. Avoid contact with galvanized steel. Hazardous decomposition products: Under fire conditions, oxides of carbon, nitrogen and sulfur may be emitted. 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: >2000 mg/kg. Acute inhalation LC50: Rat LC50: >5.13 mg/L. Eye irritation: Non-irritating. Skin irritation: Non-irritating. Sensitization: Not a sensitizer. Delayed and immediate effects as well as chronic effects from short and long-term exposure: Serious eye damage/eye irritation: None listed. Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is listed with NTP, IARC or OSHA. **Germ cell mutagenicity**: Not mutagenic (mesotrione).

SECTION 12: Ecological Information

Environmental

Hazards: Keep out of any body of water. See product label for additional environmental precautions. **Ecotoxicity**: 96-hour LC50: >100 mg/L Onchorhynchus mykiss, 48-hour EC50: 60.4 mg/L Daphnia magna. Persistence and degradability: None listed. Bioaccumulation: Low potential for bioaccumulation. Mobility: High potential for run off, moderate to high soil mobility.

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: Follow in accordance with EPA label recommendations. Observe all labeled safeguards until container is destroyed to prevent unauthorized use of used container. Emptied container retains product residue. Observe all labeled safeguards until container is destroyed or offered for recycling. Clean container promptly after emptying. Do not reuse container.

SECTION 14: Transport Information

Not subject to U.S.

DOT regulation in packages less than or equal to 119 gallons (450 liters). U.S. DOT for packages greater than 119 gallons (450 liters), IMDG, IATA: UN3082, Environmentally hazardous substance, liquid, n.o.s.(Mesotrione), 9, III, Marine pollutant.

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.: 74530-71. Hazards to Humans and Domestic Animals: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS: DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when cleaning equipment or disposing of equipment washwater or rinsate. Read EPA registered product label and advisories EPA Registration No.: 74530-71.

SARA 311/312 Hazard Categories: None listed. Refer Section 2. SARA 313: Ethylene glycol (CAS 107-21-1) <15%. CERCLA: Ethylene glycol (CAS 107-21-1) RQ 5000 lbs. TSCA: Components listed or exempt. Clean Water Act: N/A. California Proposition 65: None listed. State Right-to-Know Regulations:

Component	MA	NJ	PA
Ethylene glycol	X	X	X

SECTION 16: Other Information

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

Ratings:

Acronyms which may or may not be referenced. ACGIH - American Conference of Governmental Industrial Hygienists AU - Australia (SDD - 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 Lett. EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Infonc; F - Fahrenheit, FIFRA - Federal Insecticide, Fungicide and Rodenticide Act; GHS - Global Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Aprair Transport Association; (IAC) - International Admirition Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Amiritime Dangerous Goods; JP - Jagan; Kow - Octanolwater partition coefficient; KR - Kore; LEL - Lower Explosive Limit; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MP - Marine Pollutant; NPA - National File Protection Association; NIOSH - National Institute for Cocupational Sately and Health; NITSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Sately and Health; Philippines; RARA - 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 4th, 2023, Revision no. 1, 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

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