

Revarian™

APPLICATORS
CONCENTRATE

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: Revarian Applicators Concentrate
DESCRIPTION: Liquid herbicide
EPA REG NO.: 91234-368
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Very toxic to aquatic life. (H400)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
None	-	None	-
		Environmental Hazards	Category
		Hazardous to the aquatic environment, short-term	1

HAZARDS NOT REQUIRING CLASSIFICATION

Spray solutions must be mixed, stored and applied only in stainless steel, fiberglass, plastic and plastic lined steel containers. DO NOT mix, store, or apply this product or spray solutions of this product in unlined steel (except stainless steel) containers or spray tanks. DO NOT mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Avoid release to the environment. (P273)

Collect spillage. (P391)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Imazapyr, isopropyl-amine salt	3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-	81510-83-0	53.1%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. For chemical emergency: spill, leak, fire, exposure or accident, call **CHEMTREC day or night. Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

5. FIREFIGHTING MEASURES

Flash Point: not determined

Flammability Limits (LFL-UFL): Not determined.

Fire and Explosion Hazards: Carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide.

Extinguishing Medium: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire Fighting Equipment: Firefighters should be equipped with NIOSH approved self-contained positive pressure breathing apparatus and full protective clothing.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting gear and personal protective equipment before reuse.

5. FIREFIGHTING MEASURES (continued)

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide. To be archived: Hydrocarbons. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

NFPA Ratings: Health – 1 / Flammability – 1 / Reactivity – 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

7. HANDLING AND STORAGE

Handling: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with occupational exposure limits

Isopropylamine	OSHA Z1	PEL 5 ppm 12 mg/m3
	ACGIH, US:	TWA value 2 ppm
	ACGIH, US:	STEL value 5 ppm
	ACGIH, US:	Skin Designation
		Danger of cutaneous absorption

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station, ventilation system and a safety shower.

Protective Clothing: Mixers, loaders, applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves made of any waterproof material including barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash the outside of gloves before removing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	transparent green liquid
Odor:	mildly bitter
Melting/freezing point:	not determined
Boiling point/Boiling range:	not determined
Flammability:	not determined
Flammability limits (upper/lower):	not determined
Flash point:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	4.75-5.75
Capillary Viscosity:	29.9 centipoise at 25°C 14.4 centipoise at 39°C
Solubility:	not determined
Partition coefficient:	not determined
Vapor pressure:	not determined
Bulk density:	9.24 lbs/gal
Vapor density:	not determined
Particle characteristics:	not determined

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Incompatible with strong oxidizing agents and alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: Prolonged thermal loading can result in products of degradation being give off.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

ORAL TOXICITY (LD₅₀): >5,000 mg/kg

DERMAL TOXICITY (LD₅₀): >5,000 mg/kg

INHALATION TOXICITY: >5.0 mg/L

EYE IRRITATION: Non-irritant

SKIN IRRITATION: Slightly irritating (rabbits)

SKIN SENSITIZATION: Non-sensitizing (guinea pig)

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

IARC: Not Listed

NTP: Not Listed

OSHA: Not Listed

REPRODUCTIVE TOXICITY: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

MUTAGENICITY TOXICITY: Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

TERATOGENICITY TOXICITY: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

12. ECOLOGICAL INFORMATION

This product is toxic to plants and vascular plants.

The following information is for the active ingredient, Imazapyr isopropylamine salt

AQUATIC TOXICITY:

Rainbow trout (96-hr LC₅₀): >110 mg ae/L; (NOAEC): 110 mg ae/L

Bluegill sunfish (96-hr LC₅₀): >818 mg ae/L

Daphnia (48-hr EC₅₀): 614 mg ae/L

Duckweed (14-day EC₅₀): 0.018 mg ae/L; (NOAEC): 0.011 mg ae/L

Green Algae (7-day EC₅₀): 11.5 mg ae/L; (NOAEC): 7.16 mg ae/L

AVIAN TOXICITY:

Bobwhite quail (Acute oral dietary LC₅₀): >5,000 ppm

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used must be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable containers. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT: Not regulated

IMDG:

Shipped internationally UN3082, Environmentally hazardous by vessel: substance, liquid, N.O.S. (contains imazapyr isopropylamine salt), 9, PG III, Marine Pollutant

IATA:

Shipments by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains imazapyr isopropylamine salt), 9, PG III, Marine Pollutant

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA –

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. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. No human or domestic animal hazard statements are required.

ENVIRONMENTAL HAZARDS

This product is toxic to plants. Drift and runoff may be hazardous to plants in water adjacent to treated areas. Do not apply to water except as specified in this label. Treatment of aquatic weeds may result in oxygen depletion or loss due to decomposition of dead plants. Do not treat more than 1/2 of the surface area of the water in a single operation and wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow aquatic organisms to move into untreated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. This pesticide is toxic to vascular plants and must be used strictly in accordance with the drift precautions on the label.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of A3121.03 must be mixed, store and applied only in stainless steel, fiberglass, plastic and plastic-lined steel containers. Do not mix, store, or apply this product or spray solutions of this product in unlined steel (except stainless steel) containers or spray tanks. Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances
Not listed

SARA Title III – Section 311/312 Hazard Categories
Immediate (Acute)

SARA Title III – Section 312 Threshold Planning Quantity
Not listed

SARA Title III – Section 313 Reportable Ingredients
Not listed

CERCLA Reportable Quantity (RQ) –
Not listed

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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