



SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Whiplash
DESCRIPTION: Agricultural Herbicide
EPA Reg. No.: 91234-46
COMPANY IDENTIFICATION: Atticus, LLC
5000 CentreGreen Way, Suite 100
Cary, NC 27513

2. HAZARD IDENTIFICATION



WARNING

Suspected of causing cancer (H351)
Causes eye irritation (H320)
Combustible liquid (H227)
Toxic to aquatic life (H401)

HAZARD CLASSIFICATION

Health Hazard	Category	Other Hazards	Category
Serious eye damage/eye irritation	2B	Flammable liquids	4
Carcinogenicity	2	Hazardous to the aquatic environment, acute	2

PRECAUTIONARY STATEMENTS

Obtain special instructions before use. (P201)
Do not handle until all safety precautions have been read and understood. (P202)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Wear protective clothing including long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks. (P280)
Wash hands thoroughly after handling. (P264)
Avoid release to the environment. (P273)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
If eye irritation persists: Get medical advice/attention. (P337+P313)
If exposed or concerned: Get medical advice/attention. (P308+P313)
Collect spillage. (P391)
Store locked up. (P405)
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
Fluroxypyr-meptyl	1-methylheptyl [(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetate	81406-37-3	12.3%
Clopyralid MEA salt	3,6-dichloropyridine-2-carboxylic acid with 2-hydroxyethylammonium	57754-85-5	11.3%
Naphthalene	--	91-20-3	< 2.4%
1,2,4-trimethylbenzene	--	95-63-6	< 1.0%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall®: **1-844-685-9173**. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: **1-800-424-9300**.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 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.

NOTE TO PHYSICIAN: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5. FIREFIGHTING MEASURES

Flash Point: 74.4°C (166°F)

Flammable Limits (LFL-UFL): N/A

Fire and Explosion Hazards: Combustible liquid.

Extinguishing Medium: Water fog, foam, dry chemical or carbon dioxide (CO₂).

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

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.

Hazardous Combustion Products: Oxides of carbon, hydrogen fluoride, and hydrogen chloride

NFPA Ratings: Health – 1 / Flammability – 2 / 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: Absorb spill with suitable material such as clay, sand, or dirt. Sweep up and collect in suitable container for disposal. Large spills may necessitate the removal of topsoil.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage: Store above 20°F or warm and agitate before use. Store in original containers only. Keep container closed when not in use. Do not store near food or feed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Protective Clothing: Applicators and other handlers must wear long-sleeved shirt and long pants, chemical-resistant gloves made out of barrier laminate or Viton \geq 14 mils; and shoes plus socks.

General: Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Odor: aromatic

Flashpoint: $>74.4^{\circ}\text{C}$ (166°F)

pH: 4-5 (1% aq.)

Dynamic Viscosity: 27.7 cP

Density: 8.68 lbs./gal (1.04 g/cm^3)

Solubility: emulsifiable

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Product can oxidize at elevated temperatures. Some components of this product can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers, acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products can include and are not limited to: hydrogen chloride and hydrogen fluoride.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD_{50}): $> 5000\text{ mg/kg}$

DERMAL TOXICITY (rat LD_{50}): $> 5000\text{ mg/kg}$

INHALATION TOXICITY (rat LC_{50}): $> 5.39\text{ mg/L}$ (4-hour)

EYE IRRITATION: Moderately irritating, slight corneal injury

SKIN IRRITATION: Slightly irritating

SKIN SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

ACGIH: A3 (naphthalene) **NTP:** Reasonably anticipated to be human carcinogen (naphthalene)

IARC: 2B (naphthalene)

MUTAGENIC TOXICITY: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

TERATOGENICITY: No evidence of teratogenicity.

REPRODUCTIVE TOXICITY: No evidence of reproductive toxicity.

12. ECOLOGICAL INFORMATION

This product is toxic to fish. Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes.

The following information is for the active ingredient, clopyralid acid:

AQUATIC TOXICITY

Rainbow Trout (96-hour LC_{50}): 103.5 mg/L

Bluegill (96-hr LC_{50}): 125.4 mg/L

Daphnia (48-hour EC_{50}): 225 mg/L

Daphnia (NOAEC): 17 mg/L

Algae (96-hr EC_{50}): 6.9 mg/L

Aquatic arthropods: disruption of molting

AVIAN TOXICITY

Mallard ducks (LD_{50}): 1465 mg/kg

OTHER TOXICITY

Bees: $> 100\text{ }\mu\text{g/bee}$ (not toxic to bees)

The following information is for the active ingredient, fluroxypyr-meptyl:

Not toxic to aquatic organism at the limit of solubility.

The following information is for the minor component, naphthalene:

AQUATIC TOXICITY

Rainbow Trout (96-hour LC_{50}): 0.11 mg/L

Rainbow Trout (NOAEC): 0.37 mg/L

Daphnia (48-hour EC_{50}): 1.6 mg/L

Daphnia (NOAEC): 0.48 mg/L

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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 container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US DOT (shipped by land):

Containers \leq 119 gallons (450 liters):

Not regulated

Containers $>$ 119 gallons (450 liters):

NA1993, Combustible Liquid, N.O.S. (heavy aromatic naphtha, naphthalene), PG III

IATA/IMDG (shipped by air or vessel):

Containers $<$ 1.3 gallons (5 liters):

Not regulated

Containers \geq 1.3 gallons (5 liters):

UN3083, Environmentally Hazardous Substance, Solid, N.O.S. (naphthalene), 9, PG III, Marine Pollutant

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. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. 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 washwaters. Do not contaminate water used for irrigation or domestic purposes.

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

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, Delayed

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients


Naphthalene (CAS No. 91-20-3) (<2.4%)

1,2,4-trimethylbenzene (CAS No. 95-63-6) (<1%)

CERCLA Reportable Quantity (RQ) –

Naphthalene (CAS No. 91-20-3) (<2.4%): RQ 100 lbs. (500 gallons of product)

CALIFORNIA PROP 65 STATUS –

 **WARNING:** This product can expose you to naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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.

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