

ATRAZINE 4L Herbicide

Section 1: Material Identification

Product Name: Atrazine 4L Herbicide
EPA Reg No.: 19713-11-55467
CAS NO: 1912-24-9
Formula: C₈H₁₄ClN₅
Company: Tenkoz, Inc.
1725 Windward Concourse, Suite 410
Alpharetta, GA 30005

Identifiers:

EINECS: 217-617-8
RTECS: XY5600000
DOT information: See Section 14 for Transportation Information

Emergency Telephone Number: 1-800-424-9300

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Please see **Section 15: REGULATORY INFORMATION** for explanation.

Section 2: Hazard Identification

(As defined by the OSHA Hazard Communication Standard, 29)

GHS classification:

Health hazards: Acute toxicity – inhalation Category 4
Specific target organ toxicity – repeated exposure Category 2

Environmental hazards: Aquatic acute toxicity Category 2

GHS label elements:

Signal word: Warning



Hazard statements: Harmful if inhaled.
May cause damage to heart through prolonged or repeated exposure.
Toxic to aquatic life.

Precautionary statements:

Prevention: Avoid breathing vapors or spray. Use only outdoors or in well-ventilated area.
Do not breathe dust/fume/gas/mist/vapors/spray.
Prevent from entering into sewers, waterways and/or groundwater.
See Section 12, Ecological Information.

Response: **If inhaled:** Remove person to fresh air and keep comfortable for breathing.
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
Call a poison control center or doctor for further treatment advice.
Get medical advice/attention if you feel unwell.

Storage: Store in a cool, dry, well ventilated and secure area designated specifically for pesticides and away from heat sources.
Keep in original containers and keep containers closed when not in use.
Do not store in excessive heat.
Do not store near children, food, foodstuffs, drugs or potable water supplies.

Disposal: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities.

Section 3: Composition Information

<u>Components</u>	<u>CAS No.:</u>	<u>% By Wt.:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Active ingredients:				
Atrazine	1912-24-9	42.2%	N/A	5 mg/m ³
Related Triazines	N/A	0.8%	N/A	N/A
Inert ingredients:	N/A	57.0%	N/A	N/A

Section 4: First-Aid Measures

****Have the product container, label or Safety Data Sheet with you when calling poison control center or doctor or going for treatment.****

Eye Contact: 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 eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water then have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have product label with you when calling a poison control center or doctor.

Skin Contact: Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated leather items such as shoes, belts, and watchbands.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Note to Physician: There is no specific antidote for Atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

Section 5: Fire Fighting Measures

Fire Hazards: Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Thermal decomposition during a fire can produce fumes and irritating gases.

Flammability classification (OSHA 29 CFR 1910.1200): Non-combustible

Flash point: >200°F

Lower flammable limit (% by volume): N/A

Upper flammable limit (% by volume): N/A

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff.

Firefighting media: Use foam, dry chemical, carbon dioxide, or water fog when fighting fires involving this product. Do not use water jet, as this may spread burning material. Minimize the use of water to avoid environmental contamination. Contain all runoff.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during fire-fighting operations. If contact is likely, change to full chemical resistant fire-fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, halogenated compounds, irritating fumes and smoke

NFPA: Health: Flammability: Reactivity:

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(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)

Section 6: Accidental Release Measures

Steps to be taken if Material is Released or Spilled:

- Contain spilled material if possible. Small spills: absorb in earth, sand or absorbent material and sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Drexel Chemical Co. for clean-up assistance. See Section 13: Disposal Considerations, for additional information.

Personal Precautions:

- Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7: Handling and Storage, for additional precautionary measures. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8: Exposure Controls and Personal Protection.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12: Ecological Information.

Section 7: Handling and Storage

KEEP OUT OF REACH OF CHILDREN

Handling: **General Handling:** Avoid contact with eyes, skin, and clothing. When using do not eat, drink or smoke. Wash thoroughly after handling. Do not swallow. Avoid breathing vapor. Use with adequate ventilation. Wear coveralls, long-sleeved shirt and rubber boots when handling. Keep away from heat, sparks and flame. See Section 8: Exposure Controls and Personal Protection.

Storage: Store in a cool, dry, well ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies.

Section 8: Exposure Controls / Personal Protection

Exposure Limits: TLV (Atrazine): 5 mg/m³

Personal Protection:

Eye/Face Protection: Wear safety glasses with side shields or chemical splash goggles to prevent vapors or mists from entering the eyes. If using a full face shield, always use safety glasses or goggles along with the face shield to ensure adequate protection of the eyes.

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Polyvinyl chloride ("PVC" or "vinyl").

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. When handling in enclosed areas, when large quantities of mists are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

Engineering Controls:

Ventilation: When handling this product proper ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with and eyewash facility and safety shower.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	White to off-white
Odor:	Slight
Flash Point:	N/A
Vapor Pressure (mmHg):	N/A
Boiling Point:	N/A
Vapor Density (air = 1):	N/A
Bulk Density (H₂O = 1):	1.11 g/cc
Freezing Point:	N/A
Solubility in water (wt. %) weight):	Miscible
pH:	4-8 (5% aqueous solution at 23°C)
Viscosity:	550-650 cP

Section 10: Stability and Reactivity

Stability/Instability: Stable at typical use temperatures and in closed containers.

Conditions to Avoid: Avoid heat of open flame. Avoid high temperatures above 130°F (54.4°C).

Incompatible Materials: Avoid contact with: Strong acids, Strong bases, Strong oxidizers

Hazardous Polymerization: Will not occur

Thermal Decomposition: Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides, ammonia and halogenated compounds.

Section 11: Toxicological Information

Acute Toxicity:

Ingestion (rat):

- Oral, LD50: >2,000 mg/kg

Dermal (rat):

- Dermal, LD50: >2,000 mg/kg

Inhalation (rat):

- Inhalation, LC50, Aerosol: >4.44 mg/l

Eye Irritation (rabbit):

- Non-irritating

Skin Irritation (rabbit):

- Non-irritating

Sensitization Skin (guinea pig):

- Non-sensitizer

Chronic Toxicity:

- Cardiotoxicity in long term study with high doses (dogs)

Carcinogenicity:

- Not likely to cause cancer in humans. None observed (male Sprague-Dawley rats, F-344 rats or mice).

Teratogenicity, mutagenicity, and other reproductive effects: None known

Section 12: Ecological Information

The information presented here is for the active ingredient, Atrazine:

ENVIRONMENTAL FATE:

- Slightly toxic to birds, aquatic invertebrates and bees

Persistence and Degradability:

- Low bioaccumulation potential. Not persistent in soil. Stable in water. Highly mobile in soil. Will leach. Sinks in water (after 24 hr.).

Aquatic Toxicity:

- Rainbow Trout, 96 hour, LC50: 4.5 ppm
- Bluegill, 96 hour, LC50: 54.5 ppm
- Daphnia magna, 48 hour, EC50: 6.9 ppm

Arthropod Toxicity:

- Bees, Acute, LD50: >25 µg/bee

Bird Toxicity:

- Bobwhite quail, 12 day, LD50: 940 mg/kg

Section 13: Disposal Considerations

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

Section 14: Transport Information

DOT Classification: Not regulated

IMDG/Water Transport: UN 3082, Environmentally hazardous Substance, Liquid, N.O.S. (Atrazine), 9, PG-III, Marine Pollutant

IATA/Air Transport: UN 3082, Environmentally hazardous Substance, Liquid, N.O.S. (Atrazine), 9, PG-III

Freight description: Agricultural herbicide, Liquid, n.o.s.

ERG Guide No.: 171

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. 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.

Section 15: Regulatory Information

OSHA Hazard Communication Standard:

- This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- **EPA FIFRA INFORMATION:** This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemical. The hazard information required on the pesticide label is listed out below. The pesticide label also includes other important information, including directions for use.
- **EPA/CERCLA Reportable Quantity:** None known

SARA/TITLE III:

- **Sec. 302. Extremely Hazardous Substance Notification:** Not applicable
- **Sec. 311/312. Hazard Categories:** Acute health hazard
Chronic health hazard
- **Sec. 313. Toxic Chemical(s):** Atrazine (43.0%) (CAS No. 1912-24-9)
- **RCRA Waste Code:** Not applicable

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

- This product is not listed.

Toxic Substances Control Act (TSCA):

- All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

Section 16: Other Information

Date Revised: March 8, 2017

Supersedes: December 29, 2015