



Safety Data Sheet

Report Date 08-Oct-15

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1. Identification

Product Name : ATRAZINE 4F
Synonyms : None
Product Use : Atrazine Herbicide
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Causes mild skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50 >5,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >5,050 mg/kg (rat)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/3; STOT, Repeated-2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
Harmful if inhaled
May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Atrazine	1912-24-9	42.60
Ethylene Glycol	107-21-1	Trade Secret
Inert Ingredients	Proprietary	>57.4

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : 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.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.



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5. Fire Fighting Measures

- Extinguishing Media** : Use dry chemical, foam or carbon dioxide extinguishing media.
- Specific Hazards Arising from the Chemical** : Irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
- Special Fire Fight Proc** : Wear full protective clothing and self-contained breathing apparatus. If water is used, dike and collect runoff to prevent environmental damage.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. In event of spill, use NIOSH approved respirator with any N, R, P or HE filter. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Control the spill at its source. Contain spill to prevent spreading, contaminating soil or entering waterways.
- Methods and Materials for Containment and Cleanup** : Clean up spills immediately. If a solid, sweep up material and place in a compatible container for disposal. Scrub area with hard water detergent (such as Tide or Joy). Recover wash waters with additional absorbent and place in compatible containers for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children and domestic animals. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
- Conditions for Safe Storage** : Store in a well-ventilated, secure area. Do not store food, feed, beverages or tobacco products in the storage area.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Atrazine: TLV=2 mg/m³, PEL=not established; Ethylene Glycol: TLV=100 mg/m³ (ceiling, aerosol), PEL=not established.
- Appropriate Engineering Controls** : Use effective engineering controls to comply with occupational exposure limits.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : White liquid with low to no odor.
- Flash Point, °F** : >212 Degrees F.
- Boiling Point, °F** : 212-223 Degrees F.
- Melting Point(Freezing point), °C** : No information found
- Vapor Pressure, mm Hg @ 20 °C** : 2.9x10⁽⁻⁷⁾ mmHg @ 68 Degrees F
- Vapor Density** : No information found
- Solubility in Water** : 33 mg/L @ 68 Degrees F.
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 9.15 lbs/gal
- Evaporation Rate(Butyl Acetate = 1)** : No information found



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Octanol/Water Partition Coefficient : No information found
pH : 5.04 @ 77 Degrees F.
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : >1,202 Degrees F.
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : Not reactive
Chemical Stability : Stable
Hazardous Decomposition Products : None known
Hazardous Polymerization : Will not occur
Conditions to Avoid : None known
Incompatible Materials : None known

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,050 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.72 mg/L (4 hours). Harmful if inhaled.
Likely Routes of Exposure : Inhalation, skin, eyes, ingestion
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not a sensitizer (guinea pig).
Carcinogenic : IARC Group 3 (Atrazine)
Chronic Effects : Specific Target Organ Toxicity, Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : Atrazine: Fish (rainbow trout) 96-hour LC50 4.5 ppm; Green Algae 5-day EC50 49 ppb; Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.9 ppm; Bird (Bobwhite Quail) 12-Day LD50 940 mg/kg.
Persistence and Degradability : Atrazine is not persistent in soil.
Bioaccumulative Potential : Atrazine has low bioaccumulation potential.
Mobility in Soil : Atrazine is highly mobile in soil. Will leach.
Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT. Regulated as Marine Pollutant by IATA and IMDG.
Transport Hazard Class : None



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UN Identification Number : None
Packaging Group : None
Environmental Hazards : Marine Pollutant under IATA (air) and IMDG (water) regulations.
Transport in Bulk : Reportable Quantity (RQ), Ethylene Glycol = 5,000 lbs/>9,600 gallons
Special Precautions for Transportation : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Atrazine), 9, PG III, Marine Pollutant
Freight Classification : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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:

EPA Registration Number : 100-497-5905
FIFRA Signal Word : Caution
FIFRA Label Statement : Restricted Use Pesticide (Ground and Surface Water Concerns)
FIFRA Label Statement : Keep out of reach of children.
FIFRA Label Statement : Causes moderate eye irritation.
FIFRA Label Statement : Avoid contact with skin or clothing.
FIFRA Label Statement : No additional label statements.
FIFRA Label Statement : No additional label statements.
FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 08-October-2015