



## Safety Data Sheet

Report Date 13-Sep-19

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### 1. Identification

**Product Name** : HELENA ATRAZINE 90-DG  
**Synonyms** : None  
**Product Use** : Atrazine Herbicide  
**Manufacturer/Supplier** : Helena Agri-Enterprises, LLC  
**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 3,129 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  
Harmful if inhaled  
Causes eye irritation  
Causes mild skin irritation  
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)  
HNOC: May form combustible dust concentrations in air.

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s -triazine	1912-24-9	88.2
Proprietary ingredients	Proprietary	11.8

### 4. First Aid Measures



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- Eye** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for 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 treatment advice.
- Ingestion** : Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Indication of Immediate Medical Attention and Special Treatment Needed** : There is no specific antidote if this product is ingested. Treat symptomatically.

### 5. Fire Fighting Measures

- Extinguishing Media** : Use dry chemical, foam or carbon dioxide extinguishing media. If water is used to fight fire, dike and collect runoff.
- Specific Hazards Arising from the Chemical** : During a fire, 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. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

### 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. Use particulate filter respirator if engineering controls are ineffective. Use self-contained breathing apparatus if air-purifying respirators may not provide adequate protection. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Control the spill at its source. Contain the spill to prevent spreading, contaminating soil or entering sewers, drain and water ways.
- Methods and Materials for Containment and Cleanup** : Avoid dust formation. Sweep up material and place in a compatible container for disposal. Scrub area with a hard water detergent (such as Tide or Joy). Pick up wash liquid with absorbent and place in compatible containers for disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : This material is capable of forming flammable dust clouds in air which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of the material.



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

### 8. Exposure Controls / Personal Protection

**TLV/PEL** : Atrazine TLV=2 mg/m<sup>2</sup> (TWA, inhalable)

**Appropriate Engineering Controls** : Use effective engineering controls to comply with exposure limits.

**Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. A particulate filter respirator if occupational exposure limits are exceeded. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Light, beige to brown granules/weak earthy, loamy

**Flash Point, °F** : Not applicable

**Boiling Point, °F** : Not applicable

**Melting Point(Freezing point), °C** : Not applicable

**Vapor Pressure, mm Hg @ 20 °C** : 2.9x10<sup>-7</sup> mmHg @ 68 Deg. F.

**Vapor Density** : Not available

**Solubility in Water** : 33 mg/L @ 68 Deg. F.

**Molecular Formula** : Not applicable, formulated mixture.

**Density, g/mL @ 25 °C** : 0.48 g/cm<sup>3</sup>

**Evaporation Rate(Butyl Acetate = 1)** : Not applicable

**Octanol/Water Partition Coefficient** : Not available

**pH** : 8.5 (1% w/w dilution with deionized water)

**Flammable Limits (approximate volume % in air)** : Not available

**Auto-ignition Temperature** : 896 Degrees F.

**Decomposition temperature** : Not available

### 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



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Incompatible Materials : None known

### 11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 3,129 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** : >2.5 mg/L/4 hours (rat). Harmful if inhaled.
- Likely Routes of Exposure** : Dermal, inhalation
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : Not a sensitizer (Guinea pig).
- Carcinogenic** : IARC Group 3 (Atrazine). Mammary tumors occurred in female Sprague-Dawley rats (sex/strain specific).
- Chronic Effects** : Specific Target Organ Toxicity, Repeated Exposure: May cause damage to organs through prolonged or repeated exposure. Cardiotoxicity occurred in long term study with high doses (dogs).
- Other Hazards** : CA PROPOSITION 65 **WARNING**: This product can expose you to chemicals including Atrazine, which is known to the State of California to cause reproductive toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 12. Ecological Information

- Ecotoxicity** : For 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** : For atrazine, not persistent in soil.
- Bioaccumulative Potential** : For atrazine, low bioaccumulation potential.
- Mobility in Soil** : For atrazine, highly mobile in soil. Stable in water. Will leach. Sinks in water (after 24 hours).
- 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 D.O.T.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None



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**Environmental Hazards** : Not a Marine Pollutant per Appendix B to 49 CFR 172.101. Classified as Marine Pollutant under IATA (air) and IMDG (water).  
**Transport in Bulk** : No information found  
**Special Precautions for Transportation** : If shipped by air (IATA) or water (IMDG) under international standards, ship as: UN3077, Environmentally Hazardous Substance, Solid, 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: 2 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 N  
Pressure:  
Fire: Y  
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** : 100-585-5905

**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** : Harmful if swallowed.

**FIFRA Label Statement** : Do not breathe dust or spray mist.

**FIFRA Label Statement** : Avoid contact with eyes, skin or clothing.

**FIFRA Label Statement** : No additional label statements.

**FIFRA Label Statement** : No additional label statements.

### 16. Other Information

**Data of Preparation/Revision** : 13-September-2019