



Safety Data Sheet

Report Date 01-Dec-16

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1. Identification

Product Name : ATRAZINE 90DG
Synonyms : Helena Atrazine-90DG
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 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
Causes eye irritation
Causes mild skin irritation
Harmful if inhaled
May cause damage to organs through prolonged or repeated exposure

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s -triazine	1912-24-9	88.20
Inert Ingredients	Trade Secret	11.80

4. First Aid Measures

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.



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- 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.
- 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.



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8. Exposure Controls / Personal Protection

TLV/PEL : Atrazine TLV=2 mg/m² (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 : 2.9x10⁻⁷ 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/cm³

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

Incompatible Materials : None known



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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** : None currently known.

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
- 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



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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 : Keep out of reach of children.

FIFRA Label Statement : Restricted Use Pesticide (Ground and Surface Water Concerns).

FIFRA Label Statement : For retail sale to and use only be certified applicators or persons under their direct supervision,

FIFRA Label Statement : and only for those uses covered by the certified applicator's certification.

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.

16. Other Information

Data of Preparation/Revision : 01-December-2016