

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				This product is not regulated by the U.S. DOT as a hazardous material; see Section 14 for full information.
1	Slight	1	Health		
2	Moderate	1	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
<b>Product Name:</b>	Atrazine 90DF
<b>EPA Registration #:</b>	9779-253
<b>Product ID/Unity #:</b>	10000735,
<b>Common Name:</b>	Triazine herbicide
<b>Chemical Description:</b>	2-chloro-4-ethylamino-6-isopropylamino-s-triazine
<b>Recommended Uses:</b>	Agricultural herbicide. See product label for complete list of uses and use sites.
<b>Restrictions for Use:</b>	See product label for information regarding restrictions on the use of this product.
<b>Manufactured For:</b> WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	<b>MEDICAL EMERGENCY TELEPHONE NUMBER:</b> 1-877-424-7452 (24hrs)  <b>Non-Emergency Business Inquiries:</b> 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
<b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:</b> CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
<b>EMERGENCY OVERVIEW:</b> Grayish-tan fine granules with a slightly sweet odor. Causes eye irritation. May form combustible dust.	
<b>POTENTIAL HEALTH EFFECTS:</b> <b>Eyes:</b> May cause moderate mechanical eye irritation including redness and tearing. <b>Skin:</b> Contact may cause mild irritation. <b>Inhalation:</b> May be harmful if inhaled. <b>Ingestion:</b> May be harmful if swallowed. <b>Preexisting Conditions:</b> Preexisting respiratory conditions may be aggravated by exposure. <b>Chronic Health Effects:</b> None known	
<b>Carcinogenicity</b>	NTP: Not listed                      IARC: Not listed                      OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> Eye Corrosion/Irritation 2A; Specific Target Organ Toxicity – Repeated Exposure Category 2; Combustible Dust	
<b>SIGNAL WORD:</b> WARNING	
<b>HAZARD STATEMENTS:</b> Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. May form combustible dust concentrations in air.	
Percent of product with unknown toxicity: <5.0%	
<b>PRECAUTIONARY STATEMENTS:</b> <b>Prevention:</b> Wash hands thoroughly after handling. Wear eye and face protection. Do not breathe dust or mist. <b>Response:</b> <b>If in eyes:</b> Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Get medical attention if you feel unwell. <b>Storage:</b> See Section 7 for storage information. <b>Disposal:</b> Dispose of contents/container in accordance with Federal, state and local regulations.	



## Atrazine 90DF

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Atrazine	88.0%	1912-24-9
Related triazines	2.0%	*
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES	
<b>Inhalation:</b>	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
<b>Ingestion:</b>	Seek medical attention or call a poison control center immediately for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Eyes:</b>	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.
<b>Skin:</b>	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES	
<b>Suitable Extinguishing Media:</b>	Water fog, water spray, foam, dry chemical, carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Special Fire Fighting Procedures:</b>	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
<b>Hazardous Combustion Products:</b>	Carbon dioxide (CO <sub>2</sub> ) and other asphyxiates may be formed.
<b>Unusual Fire and Explosion Hazards:</b>	The dust of this product may be a combustible powder, and can ignite, burn, and form explosive mixtures with air if not handled correctly. Mixtures of powder in air with flammable solvent vapors should be avoided. Eliminate the presence of mechanical sparks and other ignition sources where dust clouds of this material can form.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
<b>Personal Precautions:</b>	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
<b>Environmental Precautions:</b>	Keep spilled product from entering sewers or waterways.
<b>Methods for Containment:</b>	Contain spilled product by diking area with sand or earth.
<b>Methods for Clean-up:</b>	Avoid dust formation. Vacuum, scoop or sweep up material and place in a container for disposal. If product is uncontaminated, spilled material may be applied at the rate recommended on the label. Never return spills to original containers for re-use. After removal of spilled product, flush contaminated area thoroughly with water.
<b>Other Information:</b>	None known

SECTION 7: HANDLING AND STORAGE	
<b>Handling:</b>	RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
<b>Storage:</b>	Store in cool, dry areas away from children, feed and food products and sources of heat. Store in original container with lid tightly closed. Do not store in direct sunlight. <b>See pesticide product label for additional storage information.</b>
<b>Minimum Storage Temperature:</b>	Not determined
<b>Other Precautions:</b>	Consult Federal, state and local laws and regulations pertaining to storage.

## Atrazine 90DF

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
<b>Exposure Guidelines</b>			
<b>Component:</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>NIOSH REL</b>
Atrazine		5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
<b>NOTE TO END USERS:</b> PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.			
<b>Respiratory Protection:</b> Where airborne exposure to concentrations greater than the above listed exposure limits is likely, use a NIOSH approved respirator with cartridges/canisters approved for general particulates.			
<b>Engineering Controls:</b> <b>Local Exhaust:</b> Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.			
<b>Protective Gloves:</b> Wear chemical resistant gloves to prevent skin exposure. <b>Eye Protection:</b> Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area. <b>Other Protective Clothing or Equipment:</b> Wear long sleeve shirt, long pants and chemical resistant shoes plus socks to prevent skin exposure.			
<b>Work/Hygienic Practices:</b> Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
<b>Physical State:</b>	Solid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	Not determined
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Bulk Density:</b>	30 lbs./cu ft +/- 0.4 lbs
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	Not determined
<b>Solubility in Water (wt %):</b>	Disperses	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not applicable	<b>pH (1% dispersion):</b>	Not determined
<b>Appearance and odor:</b>	Grayish-tan fine granules with a slightly sweet odor	<b>Auto ignition Temperature:</b>	896°F

SECTION 10: STABILITY AND REACTIVITY
<b>Reactivity:</b> None known
<b>Chemical Stability:</b> Product is stable at ambient temperature and pressure, under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b> Will not occur
<b>Conditions to Avoid:</b> Avoid dust formation.
<b>Incompatible Materials:</b> Strong acids
<b>Hazardous Decomposition Products:</b> Ammonia, hydrogen chloride, ethyl chloride, and carbon monoxide at high temperatures.

SECTION 11: TOXICOLOGICAL INFORMATION	
<b>ACUTE TOXICITY</b>	
<b>Eye Effects:</b>	Based upon component data, this product is expected to cause moderate eye irritation.
<b>Skin Effects:</b>	Not estimated to cause skin irritation. Estimated LD50 >3,000 mg/kg.
<b>Acute Inhalation Effects:</b>	Estimated LC50 >5.0 mg/L
<b>Acute Oral Effects:</b>	Estimated LD50 >3,100 mg/kg
<b>Specific Target Organ Toxicity:</b>	Cardiotoxicity
<b>CHRONIC TOXICITY</b>	
<b>Chronic Effects:</b>	Atrazine has shown cardiotoxicity in long-term study with high doses (dogs).
<b>Carcinogenicity:</b>	None known
<b>Mutagenicity:</b>	None known
<b>Teratogenicity:</b>	None known
<b>Reproductive Toxicity:</b>	None known

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**POTENTIAL HEALTH EFFECTS:**

**Eyes:** May cause moderate mechanical eye irritation including redness and tearing.

**Skin:** Contact may cause mild irritation.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

**SECTION 12: ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** Slightly toxic to birds, aquatic invertebrates and bees.

**ECOTOXICITY DATA:**

**Fish Acute and Prolonged Toxicity:** Mixture estimated 96hr LC50 = 5 mg/L

**Aquatic Invertebrate Acute Toxicity:** Mixture estimated 48hr EC50 = 7 mg/L

**Aquatic Plant Toxicity:** Not available

**Bird Acute and Prolonged Toxicity:** Not available

**Honeybee Toxicity:** Atrazine technical LD50 > 25µg/bee

**ENVIRONMENTAL EFFECTS:**

**Soil Absorption/Mobility:** Atrazine is not persistent in soil profile. Atrazine has been found in groundwater. Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table is close to the surface and where these soils are very permeable (i.e. well drained). See label for more detailed information.

**Persistence and degradability:** Atrazine is stable in water. Sinks in water after 24 hours.

**Bioaccumulative Potential:** Atrazine has a low bioaccumulation potential.

**Other adverse effects:** Not available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste:** Dispose of in accordance with applicable Federal, state and local laws and regulations.

**Container:** Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.

**See pesticide product label for full instructions on disposal.**

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORT INFORMATION**

**DOT: (Ground)** This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.

**IMDG: (Sea)** UN3077, Environmentally hazardous substances, solid, n.o.s. (Atrazine), 9, PGIII

**IATA: (Air)** UN3077, Environmentally hazardous substances, solid, n.o.s. (Atrazine), 9, PGIII

**TDG: (Canada)** Not determined

**SECTION 15: REGULATORY INFORMATION**

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 - Extremely hazardous substances:** None listed

**Section 311/312 - Hazard Categories:** Immediate (Acute); Delayed (Chronic)

**Section 313 -** The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:  
Atrazine (88.0%)

**CERCLA -** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

None listed

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## Atrazine 90DF

**EPA Registration Information:** 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. Following is the hazard information as required on the pesticide label:

**CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin.

Do not breathe dust or spray mist.

Avoid contact with eyes, skin or clothing.

**California Proposition 65:** This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

Chemical Name	CAS #	State(s)
Atrazine	1912-24-9	MA, NJ, PA

**Canadian Domestic Substances List:** Not determined

**WHMIS Classification:** This product is not approved for use in Canada. WHMIS classification is not determined.

### SECTION 16: OTHER

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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**Sections Revised:** All