



# VAN DIEST SUPPLY COMPANY

Distributor and Manufacturer of Agricultural Chemicals

## SAFETY DATA SHEET

### 1. IDENTIFICATION

- 1.1 GHS PRODUCT IDENTIFIER:** CORNBELT® ATRAZINE 90DF
- 1.2 ALTERNATE NAME(S):** None
- 1.3 CHEMICAL CLASS:** Herbicide
- 1.4 ACTIVE INGREDIENT(S):** Atrazine
- 1.5 RECOMMENDED USE/RESTRICTIONS:** Please see the label for specific recommendations regarding this product.
- 1.6 SUPPLIER'S DETAILS:** Van Diest Supply Company  
1434 220th Street  
Post Office Box 610  
Webster City, IA 50595-0610
- 1.7 EMERGENCY PHONE NUMBER:** FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT - CALL CHEMTREC - DAY OR NIGHT - 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

- 2.1 HEALTH HAZARDS:** Serious eye damage/eye irritation Category 2B  
SPTOT (Repeated) Category 2

**2.2 LABEL ELEMENTS:**



#### WARNING

**HAZARDS:**

Causes eye irritation.  
May cause damage to organs through prolonged or repeated exposure.

**PREVENTION:**

Do not breathe dust.  
Wash hands and face thoroughly after handling.

**RESPONSE:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue washing.  
Get medical advice if you feel unwell.

IF EYE IRRITATION PERSISTS: Get medical advice.

**DISPOSAL:**

P501 Dispose of contents and container in accordance with federal, state, and local regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	COMMON NAME/SYNONYMS	CAS #	% IN FORMULATION
2-chloro-4-ethylamino-6-isopropylamino-s-triazine	Atrazine	1912-24-9	88.20%
Other ingredients	N/A	Trade secret	11.80%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications. This Safety Data Sheet is not a guarantee of product specification. Specific ingredient content may be found on the product label.

## 4. FIRST AID MEASURES

### 4.1 GENERAL FIRST AID RECOMMENDATIONS ARE AS FOLLOWS:

<b>EYE CONTACT:</b>	Hold eye open and rinse slowly and gently with clean water. Remove contact lenses after 5 minutes, if present, then continue rinsing eye for 15 minutes more. Seek medical advice as appropriate.
<b>SKIN CONTACT:</b>	Remove contaminated clothing and clean skin thoroughly with soap and water. Wash contaminated clothing before reuse.
<b>INGESTION:</b>	Call a poison control center, physician, or hospital immediately for treatment advice as appropriate. Identify the name of the product, the type and amount of exposure, and symptoms the patient is experiencing. Do not induce vomiting unless told to do so by a poison control center, physician, or hospital. Do not give anything by mouth to an unconscious person.
<b>INHALATION:</b>	Remove to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration if possible.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS (ACUTE AND DELAYED):

Overexposure by contact may cause damage to organs.

### 4.3 INDICATION OF NEED FOR IMMEDIATE MEDICAL ATTENTION:

If poisoning is suspected, or any symptoms are serious, immediately contact the poison control center, physician, or nearest hospital for instructions. Inform the contact of the name of the product, the type and amount of exposure, and symptoms the patient is experiencing. Treat symptomatically.

## 5. FIREFIGHTING MEASURES

### 5.1 SUITABLE EXTINGUISHING MEDIA:

Use dry chemical, foam, or CO<sub>2</sub> extinguishing media. If water is used to fight fire, dike and collect runoff.

### 5.2 UNSUITABLE EXTINGUISHING MEDIA:

None listed.

### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion. See Section 7 - Handling and Storage.

### 5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

Wear full protective clothing and a self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes, and/or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Use appropriate personal protective equipment specified in Section 8 - Exposure Control/Personal Protection. Sweep up any spilled material and place in a container for disposal. Disposal methods should be consistent with information in Section 13 - Disposal Considerations.

### 6.2 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP:

Avoid dust formation. Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8 - Exposure Control/Personal Protection. Sweep up material and place in a compatible disposal container. Scrub area with a hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span, etc.). Pick up wash liquid with additional absorbent and place into a compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

**7. HANDLING AND STORAGE****7.1 CONDITIONS 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/or electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

In general personnel handling, this material and all conducting equipment should be electrically earthed or grounded. Bulk bags (FIBC) used to contain this material should be Type B, Type C, or Type D. Type C bags must be electrically grounded or earthed before powder is charged or discharged from the bag. If metal or fiber drums are used to contain this material, make certain the metal parts are bonded to the filling equipment and grounded.

Prevent eating, drinking, tobacco use, and/or cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**7.2 CONDITIONS FOR SAFE STORAGE:**

This material can become readily charged in most operations. Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages, and/or tobacco products in the storage area.

**8. EXPOSURE CONTROL/PERSONAL PROTECTION****8.1 OCCUPATIONAL EXPOSURE LIMITS:**

MATERIAL	CAS #	OSHA PEL	ACGIH TLV	CARCINOGEN		
				NTP	IARC	OSHA
Other ingredients	N/A	N/A	2 mg/m <sup>3</sup>	No	No	No
Atrazine	1912-24-9	None	2 mg/m <sup>3</sup> TWA	No	3	No

For commercial applications and/or on-farm applications, consult the product label.

**8.2 ENGINEERING CONTROLS:**

Use effective engineering controls to comply with occupational exposure limits (if applicable).

**8.3 PERSONAL PROTECTIVE EQUIPMENT:**

The following recommendations are suitable for small, incidental contact with this material. Recommendations for commercial or on-farm application of this chemical may be found on the product label.

<b>EYE CONTACT:</b>	Where eye contact is likely, use dust-proof chemical goggles.
<b>SKIN CONTACT:</b>	Where skin contact is likely, wear chemical-resistant gloves [such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC), or Viton], coveralls, socks, and chemical-resistant footwear.
<b>INGESTION:</b>	Prevent eating, drinking, tobacco usage, and/or cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
<b>INHALATION:</b>	A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use an NIOSH-certified respirator with any N, R, P, or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Light beige to brown granules
<b>ODOR:</b>	Weak, earthy, loamy
<b>ODOR THRESHOLD:</b>	ND
<b>pH:</b>	8.5 (1% in water)

ND: No Data; N/A: Not Applicable

**9. PHYSICAL AND CHEMICAL PROPERTIES, continued**

MELTING POINT:	ND
BOILING POINT:	N/A
FLASH POINT:	N/A
EVAPORATION RATE:	N/a
FLAMMABILITY:	Combustible powder
UPPER/LOWER EXLOSIVE LIMIT:	N/A
VAPOR PRESSURE:	2.9 x 10 <sup>-7</sup> mmHg at 68°F
VAPOR DENSITY:	N/A
RELATIVE DENSITY:	0.48 g/cm <sup>3</sup>
SOLUBILITY:	33 mg/L at 68°F
PARTITION COEFFICIENT ( <i>n</i> -Octanol/Water):	ND
AUTO-IGNITION TEMPERATURE:	896°F
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY:	ND

ND: No Data; N/A: Not Applicable

**10. STABILITY AND REACTIVITY****10.1 REACTIVITY:**

Nonreactive under normal conditions.

**10.2 CHEMICAL STABILITY:**

Stable under normal conditions.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:**

Will not occur.

**10.4 CONDITIONS TO AVOID:**

Contact with incompatible materials or sources of ignition.

**10.5 INCOMPATIBLE MATERIALS:**

None known.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:**

None known.

**11. TOXICOLOGICAL INFORMATION****11.1 LIKELY ROUTES OF EXPOSURE:**

Overexposure may occur by inhalation and contact.

**11.2 SKIN CORROSION/IRRITATION:**

Non-irritating.

**11.3 SERIOUS EYE DAMAGE/IRRITATION:**

This material is anticipated to be irritating to the eyes.

**11.4 RESPIRATORY OR SKIN SENSITIZATION:**

This material is not suspected of being a sensitizer.

**11.5 GERM CELL MUTAGENICITY:**

This material is not suspected of being mutagenic.

**11.6 CARCINOGENICITY:**

This material is not suspected of being a carcinogen.

**Atrazine:** Mammary tumors (female Sprague-Dawley rats), sex and strain specific.  
None observed (male Sprague-Dawley rats, F-344 rats or mice).

**11. TOXICOLOGICAL INFORMATION, continued****11.6 CARCINOGENICITY, continued:**

MATERIAL	CARCINOGEN		
	NTP	IARC	OSHA
Atrazine	No	3	No
Other ingredients	No	No	No

**11.7 REPRODUCTIVE TOXICITY:**

This material is not suspected of being a teratogen.

**11.8 STOT-SINGLE EXPOSURE:**

Eye irritation

**11.9 STOT-LONG TERM EXPOSURE:**

Eye irritation; Cardiotoxicity in long term study with high doses (dogs).

**11.10 ASPIRATION HAZARD:**

This product does not meet the definition of an aspiration hazard.

**11.11 ACUTE TOXICOLOGY:**

INGESTION:	ORAL LD <sub>50</sub>
	>3,129 mg/kg
SKIN CONTACT:	DERMAL LD <sub>50</sub>
	<5,050 mg/kg
INHALATION:	INHALATION LC <sub>50</sub> (DUST/MIST)
	2.5 mg/L air - 4 hour

**12. ECOLOGICAL INFORMATION****12.1 ECOTOXICITY:**

The information presented here is for the active ingredient atrazine.

LC <sub>50</sub>	SPECIES	RESULTS
	Rainbow trout ( <i>Oncorhynchus mykiss</i> )	96 hour, 4.5 ppm
EC <sub>50</sub>	SPECIES	RESULTS
	Invertebrate: Water flea ( <i>Daphnia magna</i> )	48 hour, 6.9 ppm
	Green Algae	5 day, 49 ppb
LD <sub>50</sub>	SPECIES	RESULTS
	Bird: Bobwhite Quail	12 day, 940 mg/kg

**12.2 PERSISTENCE AND DEGRADABILITY:**

Not persistent in soil. Stable in water. Sinks in water after 24 hours.

**12.3 BIOACCUMULATIVE POTENTIAL:**

Low.

**12.4 MOBILITY IN SOIL:**

Highly mobile in soil. Will leach.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

**14. TRANSPORT INFORMATION****14.1 DOT CLASSIFICATION:**

DOT/UN ID NUMBER:	Ground Transport - NAFTA; Not Regulated.
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**14.2 WATER TRANSPORT - INTERNATIONAL:**

PROPER SHIPPING NAME:	Environmentally Hazardous Substance, Solid, N.O.S. (Atrazine), Marine Pollutant
HAZARD CLASS:	Class 9
IDENTIFICATION NUMBER:	UN 3077
PACKING GROUP:	PG III

**14.3 AIR TRANSPORT:**

PROPER SHIPPING NAME:	Environmentally Hazardous Substance, Solid, N.O.S. (Atrazine)
HAZARD CLASS:	Class 9
IDENTIFICATION NUMBER:	UN 3077
PACKING GROUP:	PG III

**15. REGULATORY INFORMATION****15.1 EPCRA SARA TITLE III CLASSIFICATIONS:**

SECTION 311/312 HAZARD CLASSES:	FIRE	PRESSURE	REACTIVE	ACUTE	CHRONIC
	Yes	No	No	Yes	No

**15.2 CERCLA/SARA 302 REPORTABLE QUANTITY:**

Atrazine 88.2%

**16. OTHER INFORMATION**

SDS VERSION: 1/10/2018

NFPA 1, 2, 0

The information and recommendations contained in this Safety Data Sheet are understood to be correct by Van Diest Supply Company. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Information in this SDS follows different criteria from, and serves a different purpose than the product labeling.