



VAN DIEST SUPPLY COMPANY

Distributor and Manufacturer of Agricultural Chemicals

SAFETY DATA SHEET

1. IDENTIFICATION

- 1.1 GHS PRODUCT IDENTIFIER:** CORNBELT® ATRAZINE 4L
- 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:** Specific Target Organ Toxicity, Repeated Exposure Category 2

2.2 LABEL ELEMENTS:



WARNING

HAZARDS:

H373 May cause damage to organs through prolonged or repeated exposure.

PREVENTION:

P260 Do not breathe mist/vapors/spray.

RESPONSE:

P314 Get medical advice if you feel unwell.

DISPOSAL:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	COMMON NAME/SYNONYMS	CAS #	% IN FORMULATION
Ethylene glycol	N/A	107-21-1	<10%
2-chloro-4-ethylamino-6-isopropylamino-s-triazine	Atrazine	1912-24-9	42.60%
Other ingredients	N/A	Trade secret	>47.4%

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:

EYE CONTACT:	Hold eye open and rinse slowly and gently with clean water. Remove contact lenses after 5 minutes, if present, then continue rinsing eye. Seek medical advice as appropriate.
SKIN CONTACT:	Immediately remove contaminated clothing and clean skin thoroughly with soap and water. Wash contaminated clothing before reuse.
INGESTION:	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.
INHALATION:	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 inhalation 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 CO₂ extinguishing media. If water is used to fight fire, dike and collect runoff.

5.2 UNSUITABLE EXTINGUISHING MEDIA:

None identified.

5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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. Dike and collect water runoff.

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. Absorb any spilled material and place in a container for disposal. Disposal methods should be consistent with information in Section 13 - Disposal Considerations.

6.2 ENVIRONMENTAL PRECAUTIONS:

Control the release of material to prevent contamination of soil, drains, and surface and/or ground water.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP:

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. Cover entire spill with absorbing material and place into a compatible disposal container. Scrub area with hard water and 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. Seal container and arrange for disposition.

7. HANDLING AND STORAGE

7.1 CONDITIONS FOR SAFE HANDLING:

Follow personal protective equipment recommendations as shown in Section 8 - Exposure Control/Personal Protection when handling this material, adjusted for specific handling methods and conditions, to prevent contact with this material. Wash thoroughly with soap and water after handling this material. Do not allow eating, drinking, tobacco use, and/or cosmetic application in areas where there is a potential for exposure to this material. Follow label instructions carefully.

7.2 CONDITIONS FOR SAFE STORAGE:

Store this product in a well-ventilated area in the original container. Secure material from access by children or domestic animals. Do not store this product near food, beverages, and/or tobacco products. Do not store with incompatible materials. Refer to Section 10 - Stability and Reactivity for incompatible materials.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 OCCUPATIONAL EXPOSURE LIMITS:

MATERIAL	OSHA PEL	ACGIH TLV	CARCINOGEN		
			NTP	IARC	OSHA
Ethylene glycol	N/A	100 mg/m ³	No	No	No
Atrazine	N/A	2 mg/m ³	No	3	No
Other ingredients	N/A	N/A	No	No	No

8.2 ENGINEERING CONTROLS:

Maintain air concentrations below occupational exposure standards using ventilation techniques as necessary.

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.

EYE CONTACT:	If splashing can be reasonably anticipated, for instance while pouring the product into another container, wear chemical splash goggles.
SKIN CONTACT:	Where 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.
INGESTION:	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.
INHALATION:	A respirator is not normally needed for the incidental handling of this product. For spills or other situations that may generate elevated levels of vapor or dust, use a suitable NIOSH-certified respirator with any N, R, P, or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White liquid
ODOR:	None
ODOR THRESHOLD:	ND
pH:	5
MELTING POINT:	ND
BOILING POINT:	212°F
FLASH POINT:	>212°F
EVAPORATION RATE:	ND
FLAMMABILITY:	N/A
UPPER/LOWER EXLOSIVE LIMIT:	ND
VAPOR PRESSURE:	ND

ND: No Data; N/A: Not Applicable

9. PHYSICAL AND CHEMICAL PROPERTIES, continued

VAPOR DENSITY:	ND
RELATIVE DENSITY:	N/A
SOLUBILITY:	Dispersible
PARTITION COEFFICIENT (<i>n</i> -Octanol/Water):	ND
AUTO-IGNITION TEMPERATURE:	ND
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:

None.

10.5 INCOMPATIBLE MATERIALS:

None.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

None known.

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

Overexposure may occur by inhalation, ingestion, and/or absorption.

11.2 SKIN CORROSION/IRRITATION:

This material is anticipated to be non-irritating to the skin.

11.3 SERIOUS EYE DAMAGE/IRRITATION:

This material is anticipated to be minimally 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.

MATERIAL	CARCINOGEN		
	NTP	IARC	OSHA
Atrazine	No	3	No

11.7 REPRODUCTIVE TOXICITY:

This material is not suspected of being a teratogen.

11.8 STOT-SINGLE EXPOSURE:

Overexposure by vapor inhalation is unlikely under normal handling conditions.

11.9 STOT-LONG TERM EXPOSURE:

Atrazine: Cardiotoxicity in long term study with high doses (dogs).

11. TOXICOLOGICAL INFORMATION, continued**11.9 STOT-LONG TERM EXPOSURE, continued:**

Ethylene glycol: Has been shown to produce dose-related teratogenic effects in rats and mice. Exposure to high concentrations of mists or aerosols may result in effects on the hematopoietic system and central nervous system with headache, dizziness, and drowsiness. Severe kidney damage results from swallowing large amounts of ethylene glycol.

11.10 ASPIRATION HAZARD:

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

11.11 ACUTE TOXICOLOGY:

INGESTION:	ORAL LD ₅₀
	>5,000 mg/kg
SKIN CONTACT:	DERMAL LD ₅₀
	<5,050 mg/kg
INHALATION:	INHALATION LC ₅₀ (DUST/MIST)
	>2.72 mg/L air - 4 hours

12. ECOLOGICAL INFORMATION**12.1 ECOTOXICITY:**

Ecotoxicity for the finished product is not available. This product is not for use in aquatic settings.

For Atrazine:

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

12.2 BIOACCUMULATIVE POTENTIAL:

Low bioaccumulation potential.

12.3 MOBILITY IN SOIL:

Not persistent in soil. Stable in water. Highly mobile in soil. Will leach. Sinks in water (after 24 hour).

13. DISPOSAL CONSIDERATIONS

Rinse containers thoroughly three times and use rinsate according to label instructions. Dispose of product containers, waste containers, and residues according to local, state, and federal regulations. All recovered materials must be packaged, labeled, transported, and disposed or reclaimed in conformance with applicable law and in conformance with good engineering practices. Not a characteristic waste. Not a listed waste.

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

DOT/UN ID NUMBER:	NA (Ground); NA 3082 (Rail)
DOT/UN PROPER SHIPPING NAME:	NA (Ground); RQ Other Regulated Substances, Liquid, NOS (Ethylene glycol) (Rail)
TRANSPORT HAZARD CLASSES	NA (Ground); 9 (Rail)
PACKING GROUP:	NA (Ground); PG III (Rail)
MARINE POLLUTANT:	No

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

SECTION 311/312 HAZARD CLASSES:	FIRE	PRESSURE	REACTIVE	ACUTE	CHRONIC
		No	No	No	Yes
SECTION 313 TOXIC CHEMICALS:	Atrazine			42.60%	
	Ethylene glycol			<10.00%	

15.2 CERCLA/SARA 302 REPORTABLE QUANTITY:

>9,600 gallons

15.3 RCRA HAZARDOUS WASTE CLASSIFICATION (40 CFR 261):

Not applicable.

15.4 TSCA STATUS:

Exempt from TSCA; Subject to FIFRA

16. OTHER INFORMATION

SDS VERSION: 1/10/2018

NFPA 1, 1, 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.