

Syngenta Crop Protection, Inc
Post Office Box 18300
Greensboro, NC 27419

In Case of Emergency, Call

1-800-888-8372

1. CHEMICAL IDENTIFICATION

Product Name:	AATREX 4L	Product No.:	A8566A
EPA Signal Word:	Caution		
Active Ingredient(%):	Atrazine (40.8%)	CAS No.:	1912-24-9
Chemical Name:	2-chloro-4-ethylamino-6-isopropylamino-s-triazine		
Chemical Class:	Triazine Herbicide		

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Ethylene Glycol	Not Established	100 mg/m ³ (Ceiling) [Areosol]	Not Established	No
Surfactant	Not Established	Not Established	Not Established	No
Atrazine (40.8%)	Not Established	Not Established	Not Established	No
		5 mg/m ³	5 mg/m ³ **	IARC, 3

** recommended by NIOSH

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

Exposure may cause mild irritation of eyes, skin or respiratory tract. If swallowed, nausea, vomiting, or diarrhea can result. A skin sensitization (allergic) reaction may occur in some individuals.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: White Liquid

Odor: Odorless

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, carbon monoxide, hydrogen cyanide, and acetonitrile. This product is a NFPA Class IIIB Combustible Liquid.

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician

There is no specific antidote if this product is ingested.

If a large amount has been ingested and emesis is inadequate, lavage stomach.

Treat symptomatically.

An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant.

Medical Condition Likely to be Aggravated by Exposure

Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): >200 °F (TCC)

Flammable Limits (% in Air): Lower: %; Upper: % Not Applicable

Autoignition Temperature: Not Applicable

Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, carbon monoxide, hydrogen cyanide, and acetonitrile. This product is a NFPA Class IIIB Combustible Liquid.

In Case of Fire

Use dry chemical, foam, or CO₂ extinguishing media. 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. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved chemical cartridge pesticide respirator with dust/mist pre-cartridges or a self-contained breathing apparatus (SCBA). For small spills, cover with an absorbent material such as pet litter. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the 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. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT.

FOR COMMERCIAL APPLICATIONS AND ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

Inhalation: To avoid breathing mist or spray, wear a NIOSH-approved chemical cartridge pesticide respirator with

dust/mist pre-cartridges or a supplied-air respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Liquid
Odor: Odorless
Melting Point: Not Applicable
Boiling Point: 100-106°C
Specific Gravity/Density: 1.12 @ 20°C (Typical)
pH: Not Available

Solubility in H2O

Atrazine : 33.000 mg/l @ 22°C

Vapor Pressure

Atrazine : 3.85E-02 mPA @ 25°C

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None Known

Hazardous Decomposition Products

None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: Slightly Toxic
Oral LD50 (Rat) : 1,075-1,886 mg/kg body weight
Dermal: Practically Non-Toxic
Dermal LD50 (Rabbit) : > 5,000 mg/kg body weight
Inhalation: Slightly Toxic
Inhalation LC50 (Rat) : > 4.1 mg/l air - 4 hours
Eye Contact: Mildly Irritating (Rabbit)
Skin Contact: Mildly Irritating (Rabbit)
Skin Sensitization: Sensitizing (Guinea Pig)

Mutagenic Potential

Atrazine : None observed

Reproductive Hazard Potential

Atrazine : None observed

Chronic/Subchronic Toxicity Studies

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

Carcinogenic Potential

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

Other Toxicity Information

Not Available

Toxicity of Other Components

Ethylene Glycol

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 volumes of Ethylene

Glycol.

Surfactant

Prolonged exposure may result in temporary irritation of the eyes. Repeated skin contact may result in slight, temporary irritation. Ingestion of large amounts will result in diarrhea and weakness. Inhalation overexposure will not occur during normal use.

Surfactant

Exposure can result in moderate eye irritation.

Target Organs

Active Ingredients

Atrazine : Heart

Inert Ingredients

Ethylene Glycol : Blood, Kidneys and Central Nervous System

Surfactant : Eyes and Skin

Surfactant : Eyes

12. ECOLOGICAL INFORMATION

Summary of Effects

Atrazine :

Low toxicity to fish and wildlife.

Eco-Acute Toxicity

Atrazine : Rainbow Trout 96-hour LC50 9.9 mg/L
Bluegill Sunfish 96-hour LC50 42 mg/L
Bobwhite Oral LD50 940 mg/kg
Bobwhite 8-day Dietary LC50 >5,000 ppm
Mallard 8-day Dietary LC50 >5,000 ppm
Ceriodaphnia dubia 48 HR LC50 4.9 mg A.I./L
Peking Duck LD50 >10,000 mg/kg

Eco-Chronic Toxicity

Atrazine : Fish (Fathead minnow) Early Life Stage MATC >0.25 and <0.46 mg A.I./L
Mallard Reproduction NOEC 225 ppm a.i.
Bobwhite Reproduction NOEC 225 ppm a.i.
Invertebrate (Ceriodaphnia dubia) Life Cycle NOEL 2.5 ppm

Environmental Fate

Atrazine :

No data available for the formulation. The information presented here is for the active ingredient, atrazine. A thorough review of environmental information is not possible in this document. For additional information call the toll free number listed in Section 16.

ENVIRONMENTAL PERSISTENCE/MOBILITY:

Stable in sterile water, both in the light and dark. In laboratory soil, degrades slowly under both aerobic and anaerobic conditions in the dark (t1/2 ~ 5 mo); more rapidly in the light (t1/2 = 45 d). Exhibits medium to very high mobility with four soil textures (Koc = 39 to 155).

13. DISPOSAL CONSIDERATION

Disposal

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

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification:

Not Applicable; Not regulated by DOT.

B/L Freight Classification

Compound; Weed Killing (Herbicide), N.O.S.

International Transportation

Not Applicable

15. REGULATORY INFORMATION

SARA Title III Classification

Section 311/312: Acute Health Hazard
Chronic Health Hazard

Section 313 chemical(s): Atrazine (40.8%) (CAS No. 1912-24-9)
Ethylene Glycol (CAS No. 107-21-1)

Proposition 65

Not Applicable

CERCLA Reportable Quantity (RQ)

None

RCRA Classification

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Questions concerning the safe handling of the product should be referred to:

1-800-334-9481

Issued Date: 11/25/1985

Revised Date: 3/28/2000

Supersedes: 8/5/1998

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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