



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 NINE-O HERBICIDE** Product No.: A5852E  
EPA Signal Word: Caution  
Active Ingredient(%): Atrazine (85.5%) 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
Surfactant	Not Established	Not Established	15 mg/m <sup>3</sup> (Total Dust)*	No
Sodium Sulfite	Not Established	Not Established	Not Established	IARC, 3
Surfactant	Not Established	Not Established	Not Established	No
Dispersing Agent	15 mg/m <sup>3</sup> (Total Dust)	10 mg/m <sup>3</sup> (Total Dust)	Not Established	No
Atrazine (85.5%)	Not Established	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> **	IARC, 3

\* recommended by manufacturer

\*\* recommended by NIOSH

## 3. HAZARDS IDENTIFICATION

### Symptoms of Acute Exposure

Exposure may result in slight, temporary eye or skin irritation.

### Hazardous Decomposition Products

None Known

### Physical Properties

Appearance: Light Beige Granules

Odor: Sweet

### Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, carbon monoxide, hydrogen cyanide and acetonitrile.

## 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 pre-existing respiratory disorders, allergic history or pre-existing dermatitis should use extra precautions in handling this product.

## **5. FIRE FIGHTING MEASURES**

### Fire and Explosion

Flash Point (Test Method): Not Applicable

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

Autoignition Temperature: 480 °C

Flammability: Not Flammable (DOT 49CFR 173.124)

### Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, carbon monoxide, hydrogen cyanide and acetonitrile.

### 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 use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present. For small spills, sweep up, keeping dust to a minimum, 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 dust, use a particulate filter, NIOSH approved per 42 CFR Part 84. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency may range from 95 - 99.97% as appropriate for the size distribution of dusts present.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light Beige Granules  
Odor: Sweet  
Melting Point: Not Available  
Boiling Point: Not Applicable  
Specific Gravity/Density: 0.35 g/mL @ 20°C  
pH: 7-10(10% suspension in H<sub>2</sub>O)

### Solubility in H<sub>2</sub>O

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) : > 2,000 mg/kg body weight  
Dermal: Practically Non-Toxic  
Dermal LD50 (Rabbit) : > 10,200 mg/kg body weight  
Inhalation: Slightly Toxic  
Inhalation LC50 (Rat) : > 2.5 mg/l air - 4 hours  
Eye Contact: Minimally Irritating (Rabbit)  
Skin Contact: Mildly Irritating (Rabbit)  
Skin Sensitization: Not a Sensitizer (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

Dispersing Agent

Dust may produce a respiratory allergenic response and/or irritation in some individuals. May cause severe eye injury but the damage is reversible.

Surfactant

Exposure may cause skin and eye irritation.

Surfactant

Exposure can result in eye, skin and respiratory tract irritation.

#### Target Organs

##### Active Ingredients

Atrazine : Heart

##### Inert Ingredients

Dispersing Agent : Not Available

Surfactant : Skin and Eyes

Surfactant : Eyes, Skin and Respiratory Tract

## 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 ( $t_{1/2} \sim 5$  mo); more rapidly in the light ( $t_{1/2} = 45$  d). Exhibits medium to very high mobility with four soil textures ( $K_{oc} = 39$  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 (85.5%) (CAS No. 1912-24-9)

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: 2/9/1999

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.

RSVP# : SCP-955-585A-00004S