

## MATERIAL SAFETY DATA SHEET

### CORNBELT ATRAZINE 90DF

Van Diest Supply Co.  
P.O. Box 610  
Webster City, IA 50595  
515-832-2366

FOR CHEMICAL EMERGENCY  
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CALL CHEMTREC - DAY OR NIGHT  
1-800-424-9300

### PRODUCT IDENTIFICATION

**Common Name:** Cornbelt Atrazine 90DF

**EPA Reg. No:** 11773-13

### INGREDIENTS

Atrazine (2-chloro-4-ethylamino-  
6-isopropylamino-s-triazine)

85.4%

### TLV (ACGIH)

5mg/m<sup>3</sup>

Related Compounds

4.6%

10mg/m<sup>3</sup>

Inert Ingredients

10.0%

### NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (NFPA 704)

(4=Extreme; 3=High; 2=Moderate; 1=Slight; 0=Insignificant)

Health - 2

Fire - 0

Reactivity - 0

### HAZARDOUS CHEMICALS UNDER OSHA HAZARD COMMUNICATION STANDARD

**Hazard Summary (As Defined by OSHA Hazard Comm. Standard, 29CFR 1910.1200):**

**Physical Hazards:** None

**Health Hazards:** Inhalation (TLV), Irritant (eye), Sensitizer (skin), Ingestion (slightly toxic).

Read the entire MSDS for a more thorough evaluation of the hazards.

### WARNING STATEMENTS

Keep away from children. Do not get in eyes, on skin or on clothing. Do not store near fertilizers, seeds, insecticides or fungicides. Do not contaminate irrigation ditches or domestic water supplies. Keep containers closed.

### PRECAUTIONARY MEASURES

**Ingestion:** Keep all food in a separate area away from the storage/use location of the chemical. Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to this material. Always wash hands prior to using tobacco products, eating, drinking or applying cosmetics.

**Skin Contact:** Prevent skin contact with the product by using rubber gloves, waterproof boots, protective clothing and hat.

**Eye Contact:** Avoid eye contact with the product by using chemical safety glasses or goggles.

**Inhalation:** This material should be handled in a well-ventilated area. Where adequate ventilation is not available, or exposure for long periods to excessive dust could occur, wear a NIOSH/MSHA approved dust or pesticide respirator.

After working with Cornbelt Atrazine 90DF, thoroughly clean contaminated equipment with a detergent solution. Wash thoroughly, change clothing and clean protective gear.

### **HEALTH HAZARDS AND FIRST AID**

Cornbelt Atrazine 90DF is a triazine herbicide. These compounds are only slightly toxic to monogastric animals and humans. They are moderately toxic to ruminants. Irritation of eyes, skin, nose or throat may result from overexposure to Cornbelt Atrazine 90DF. If swallowed, nausea, vomiting or diarrhea can occur. Skin sensitization reactions may occur in sensitive individuals.

If poisoning is suspected, do not wait for symptoms to develop. Immediately begin the recommended procedures below. Contact a physician, the nearest hospital or the nearest Poison Control Center. Tell the person contacted the complete product name, the type and amount of exposure, describe any symptoms, and follow the advice given.

**Ingestion:** Slightly toxic. Acute oral LD<sub>50</sub> (rat) = 1,600 mg/kg. Studies with rats have shown that 50% of the animals can be killed by a single oral dose of 1.6 grams per kilogram of body weight. Based on these animal data, ingestion of approximately 3.5 ounces or more of Cornbelt Atrazine 90DF may be fatal to a person.

**First Aid:** If victim is fully conscious, immediately give large quantities of water and induce vomiting only if told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person. Apply artificial respiration if necessary, preferably by mechanical means. Call a physician or the nearest Poison Control Center immediately.

**Skin:** Mildly irritating, sensitizing. Acute Dermal LD<sub>50</sub> (rabbit) >10,200 mg/kg. Practically non-toxic on absorption through the skin. Studies with rabbits have shown that some temporary skin swelling and redness occurred after exposure for 24 hours. Studies with guinea pigs with atrazine technical produced a sensitizing reaction.

**First Aid:** Remove contaminated clothing. Wash with plenty of soap and water, including hair and under fingernails. Atrazine may migrate through the skin. Do not attempt to neutralize with chemical agents.

**Eyes:** Minimally irritating. Studies with rabbits have shown that temporary redness and swelling of the eyelids can occur.

**First Aid:** Immediately flush with a large amount of running water for 15 minutes. Hold eyelids apart while flushing to insure the entire surface of the eye and lids are rinsed with water. Do not attempt to neutralize with chemical agents.

**Inhalation:** Moderately toxic. Acute Inhalation LC<sub>50</sub> (rat) >1.3 mg/L air-4 hours. No deaths or symptoms occurred at this concentration.

**First Aid:** If symptoms occur, move person to fresh air. If person is not breathing, call 911 and give artificial respiration.

**NOTES TO PHYSICIAN**

Cornbelt Atrazine 90DF is an s-triazine herbicide. There is no specific antidote if ingested. If a large amount has been ingested and emesis has been inadequate, lavage stomach. A suspension of thirty to fifty grams of activated charcoal can be given. Give a suitable saline laxative and supportive therapy. Treat symptomatically.

**MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY OVEREXPOSURE**

Individuals with known hypersensitivity to Atrazine should not be exposed. Individuals with allergic history or pre-existing dermatitis should use extra care in handling Atrazine.

**CHRONIC TOXICITY DATA**

Long-term exposure to low levels of the material is not known to cause any ill effects in humans. Atrazine has been tested in a number of lifetime carcinogenicity studies in rats and mice by the National Cancer Institute. Atrazine was not carcinogenic in any of these studies. One study has indicated that when Atrazine was fed to rats at extremely high levels, the females experienced a higher rate of benign mammary tumors than those not exposed. These results are thought to relate to an induced endocrine dysfunction in this species and not to an oncogenic potential. Additional studies are in progress which will reflect the present regulatory guidelines.

**TERATOGENICITY AND REPRODUCTIVE TOXICITY DATA**

Atrazine has been evaluated in teratology studies using rats and rabbits and in a three-generation reproduction study using rats. Atrazine was not teratogenic in rats or rabbits and showed no adverse effects on the reproductive capability of rats exposed to Atrazine over three consecutive generations.

**MUTAGENICITY DATA**

Atrazine has been tested in a wide range of animal, plant, and microorganism mutagenicity assays and has never been mutagenic. It has been reported to cause chromosome aberrations in barley seeds and to be converted to a mutagenic agent in corn plants, but both these findings were successfully refuted. The data, overall, indicate that Atrazine is not mutagenic in studies that have been documented as reliable in determining the mutagenic activity of pesticides.

**TOXICITY OF OTHER COMPONENTS**

Cornbelt Atrazine 90DF contains ingredients considered trade secrets by Van Diest Supply Co., which are nuisance dusts.

**FIRE PROTECTION INFORMATION**

**Flash Point:** N/A

**Auto Ignition Temperature:** N/A

**Flammable Limits in Air % By Volume:** Lower N/A; Upper N/A

**Extinguishing Media:** Dry chemical, foam, or carbon dioxide

**Special Fire Fighting Procedures:** Use standard organic chemical fire fighting techniques.

**Unusual Fire and Explosion Hazards:**

Fire fighters should wear standard gear including full face, self-contained breathing apparatus and rubber suits, boots and gloves. As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the area. Irritating and possibly toxic gases can be generated. Water runoff can cause environmental damage.

**PHYSICAL DATA****Boiling Point:** N/A**Bulk Density:** 0.34 g/cm<sup>3</sup>**Vapor Pressure (psi):** 4x10<sup>-7</sup> mmHg @ 20°C**Percent Volatile by Volume:** N/A**Vapor Density (Air=1):** N/A**Evaporation Rate:** N/A**Solubility in Water:** 33ppm @ 20°C (Technical)**Reactivity in Water:** N/A**Appearance and Odor:** Grayish brown granules, odorless**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 use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**REACTIVITY DATA****Stability:** Stable under normal conditions**Incompatibility (Materials to Avoid):** Strong acids and bases**Hazardous Decomposition Products:**

Hazardous decomposition products may include, but are not limited to, carbon monoxide, hydrogen cyanide, acetonitrile. The product presents a possible dust explosion hazard and upon decomposition releases flammable gas. It is not shock sensitive.

**Hazardous Polymerization:** Will Not Occur**SPILL, LEAK & DISPOSAL INFORMATION****Steps To Be Taken in Case Material is Released or Spilled:**

Make sure all personnel involved in spill cleanup follow good industrial hygiene practices.

Small spills can be handled routinely. Wear rubber gloves, boots, safety goggles, protective clothing and hat. Cover the spill with an absorbent material, such as sweeping compound or lime. Sweep up the material and place in an appropriate chemical waste container. Wash the spill area with water containing a strong detergent. Absorb it, and place in the chemical waste container. Seal container and dispose of in an approved manner. Flush the spill area with water to remove any residue. Do not allow wash water to contaminate water supplies. All personnel should wash thoroughly after cleanup is completed.

**Disposal Method:**

Do not reuse container. Disposal of material, wash water, spill residues and containers must be by methods consistent with local, state and federal health and environmental regulations.

**DOT INFORMATION**

Compounds, Tree or Weed Killing, N.O.I.

**REGULATORY INFORMATION**

**Product Description:** Mixture; Solid

**311/312 Hazard Categories:**

Acute (immediate)

Delayed (Chronic)

**313 Reportable Ingredients:** Atrazine (85.4%)

**Reportable Quantity:** N/A

**ADDITIONAL INFORMATION**

Prepared by: Van Diest Supply Co.

Date Prepared: February, 1986

Date Revised: 8-2007

The information, data, and recommendations in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information, data, and recommendations set forth herein are believed by Van Diest Supply Co. to be accurate. Van Diest Supply Co. makes no warranties, either expressed or implied, with respect thereto and assumes no liability in connection with any use of such information, data and recommendations.

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