

**MATERIAL SAFETY DATA SHEET**

Tenkoz, Inc.  
100 North Point Center East  
Alpharetta, GA 30022

In Case of Emergency, Call  
  
CHEMTREC: 800-424-9300

**I. GENERAL INFORMATION**

2-Moderate Health Hazard      0-Least Flammability      0-Least Reactivity

**II. TRANSPORTATION INFORMATION**

Proposition 65 (CA Only):      Not Determined  
Reportable Quantity (RQ):      None  
RCRA Classification:      Not Applicable  
DOT Classification:      Not Applicable; No label or Placard required  
B/L Freight Classification:      Compound; Weed Killing (Herbicide), N.O.S.

SARA TITLE III Classification

312 Hazards Classification: Acute and Chronic Health Hazard

**III. PRODUCT IDENTIFICATION**

Product Names: Tenkoz Atrazine 90DF

Active Ingredient: Atrazine (85.5% wt/wt) [CAS# 1912-24-9]; related compounds 4.5% wt/wt

Chemical Name: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine

Chemical Class: Triazine Herbicide

EPA Signal Word: Caution

**IV. HAZARDOUS INGREDIENTS**

<u>Material</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NTP/IARC/OSHA Carcinogen</u>
Atrazine	5mg/m <sup>3</sup>	5mg/m <sup>3</sup> No	
Nuisance dusts	15 mg/m <sup>3</sup> (total dust)	10 mg/m <sup>3</sup>	No

**V. PHYSICAL DATA (\*denotes data developed from technical active ingredient)**

Boiling Point:      Not applicable  
Melting Point:      \*175 – 177° C  
Vapor Pressure:      \*6.6x10<sup>-7</sup> mm Hg @ 25°C  
Solubility in H<sub>2</sub>O:      \*33 ppm at 20°C  
Evaporation Rate:      Not applicable  
Appearance and Odor:      Grayish-brown granules, odorless  
pH:      Not Available  
Specific Gravity:      \*1.19 at 25°C

**VI. FIRE AND EXPLOSION DATA**

Flash Point:      200° C (technical active ingredient)  
Autoignition Temperature:      480° C (technical active ingredient)  
Flammable Limits (% in Air):      Not Applicable  
Unusual Fire and Explosion Hazards:      Presents a possible dust explosion hazard

**VII. HEALTH HAZARD INFORMATION**Acute Toxicity/Irritation Studies

Ingestion:      Slightly Toxic; Oral LD<sub>50</sub> (Rat) = 1,600 mg/kg body weight

Dermal Absorption:	Practically non-toxic; Dermal LD50 (Rabbit) >10,200 mg/kg body weight
Inhalation:	Slightly Toxic; Inhalation LC50 (Rat; 4 hours) >1.3 mg/l air Highest attainable concentration; no animal deaths or symptoms occurred
Eye Contact:	Minimally irritating (Rabbit)
Skin Contact:	Mildly irritating (Rabbit)
Skin Sensitization:	Sensitizer (Guinea Pig)

**Symptoms of Acute Exposure**

Slight, temporary eye or skin irritation may occur. Repeated skin contact may cause a sensitization (allergic) reaction in sensitive individuals.

**Chronic Toxicity/Irritation Studies**

Long-term exposure to low levels of Atrazine is not known to cause any chronic ill effects in humans.

An elevated incidence of mammary tumors was observed in female Sprague-Dawley rats during a long-term feeding study with Atrazine Technical. This response did not occur in another strain of rats or mice and is considered to be sex and strain-specific. In other long-term feeding studies, very high doses of Atrazine caused signs of cardiotoxicity in dogs and mice. A metabolite of Atrazine, 2,3-diamino-6-chloro-s-triazine (DACT) has caused cardiotoxicity in dogs at high doses. Atrazine caused no adverse reproductive effects over two generations of rats and was not teratogenic in rats or rabbits. Atrazine has been reported to cause mutagenic effects in barley seeds and corn plants, however, those findings have been successfully refuted, and data from studies documented as reliable in determining mutagenic potential indicate that Atrazine is not a mutagen.

**Toxicity of Other Components**

Atrazine 90DF contains several components which are reported by the manufacturer to be nuisance dusts. Prolonged breathing of excessive dust may affect lung function.

**Emergency and First Aid Procedures**

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.

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

**Skin:** 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 wash before reuse.

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

**Ingestion:** If victim is fully conscious, immediately give 1 or 2 glasses of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN**

There is no specific antidote if Atrazine 90DF is ingested. If a small amount has been ingested, five mg/kg activated charcoal suspension (50g/400 ml water) can be given.

Based on the acute oral LD50 in rats, ingestion of ¼ pound may be fatal to an adult human.

**MEDICAL CONDITIONS LIKELY TO BE AGGRAVATED BY EXPOSURE**

Persons with known hypersensitivity to Atrazine should not be exposed to this product. Individuals with allergic history or pre-existing dermatitis should use extra care in handling Atrazine 90DF.

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**VIII. REACTIVITY DATA**

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Conditions Contributing to Instability: Under normal use conditions, this product is stable.

Conditions to avoid: None known.

Hazardous Decomposition Products: Hazardous decomposition products may include but are not limited to carbon monoxide, hydrogen cyanide, acetonitrile.

Conditions Contributing To Hazardous Polymerization: Will not occur.

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**IX. SPILL OR LEAK PROCEDURES**

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**Steps To Be Taken If Material Is Released Or Spilled:** Wear chemical safety glasses or goggles, rubber gloves, waterproof boots, long-sleeved shirt, long pants, hat and a NIOSH-approved dust or pesticide respirator. Sweep up as much material as possible, keeping dust to a minimum and place in an approved chemical waste container. Wash the spill area with water containing a strong detergent, absorb with an absorbent material, sweep up and place in a chemical waste container. Seal the container and dispose of in an approved manner. Rinse the spill area with water to remove any residue. Do not allow wash or rinse water to contaminate water supplies.

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**X. INDUSTRIAL HYGIENE CONTROL MEASURES**

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**Ventilation Requirements:** 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.

**SPECIFIC PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORY:** To avoid breathing spray or mist, wear a NIOSH-approved dust or pesticide respirator.

**EYE:** To avoid eye contact, wear chemical safety glasses or goggles.

**SKIN:** To avoid skin contact, wear rubber gloves, waterproof boots, long-sleeved shirt, long pants, and hat.

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**XI. SPECIAL PRECAUTIONS**

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**In Case of Fire**

Use dry chemical, foam, or CO<sub>2</sub> extinguisher 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.

**Disposal**

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

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Issued:

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