



MATERIAL SAFETY DATA SHEET

I. COMPANY/PRODUCT IDENTIFICATION

Agriliance
P.O. Box 64089
St. Paul, MN 55164-0089

In Case of Emergency Call:
(877) 424-7452 [US]
(800) 424-9300 [CHEMTREC,24 hours]

PRODUCT NAME: Atrazine 90DF
Product Class: Herbicide
Synonyms: Atrazine
Active Ingredient(s) and/or Primary Component(s) : (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)

Chemical Family: Triazine herbicide

EPA REG. NO. 9779-253

2. COMPOSITION/INFORMATION OF HAZARDOUS INGREDIENTS

CHEMICAL NAME (INGREDIENTS)	CAS NUMBER	OSHA HAZARD	% BY WEIGHT
Atrazine	1912-24-9	Yes	86.5
Related Triazines		Yes	3.5
Formulation aids*		No	10.0

**Trade secret information available as provided in 29 CFR 1910.1200 (i)*

For EXPOSURE GUIDELINES, See page 3, section 8 of this MSDS

3. HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE

ACUTE (SHORT TERM EXPOSURE):

EYE: May cause irritation or redness. **SKIN CONTACT:** Prolonged exposure may cause skin irritation. **INGESTION:** May cause gastric distress, lethargy, muscle weakness. **INHALATION:** May cause irritation or labored breathing

CHRONIC (LONG TERM EXPOSURE):

Prolonged or repeated overexposure may cause red and irritated eyes and skin, lethargy, muscle weakness and/or labored breathing.

GENERAL PRECAUTIONS:

Always practice good industrial hygiene; handle with care; avoid personal contact. Do not get into eyes or on skin; do not breathe mist or vapor of product. Do not swallow. Wash hands with soap and water and rinse after handling product. Shower after each shift. Wash all work clothing and completely clean all PPE (personal protective equipment) after each shift.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

Skin contact may aggravate preexisting skin conditions. Inhalation of dust or mists may aggravate preexisting respiratory conditions.

PRIMARY ROUTE OF ENTRY: **INHALATION** **INGESTION** **ABSORPTION**

4. FIRST AID MEASURES

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth if possible. Call a Poison Control Center or doctor for further treatment advice.

IF SWALLOWED: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: (ANTIDOTE) N/E

5. FIRE FIGHTING MEASURES

FLASH POINT	FLAMMABLE LIMITS	LOWER EXPLOSIVE LIMIT (LEL)	UPPER EXPLOSIVE LIMIT (UEL)
N/A	N/E	N/E	N/E

EXTINGUISHING MEDIA:

FOAM CO₂ DRY CHEMICAL WATER FOG or SPRAY for large fires OTHER (SPECIFY):

SPECIAL FIRE FIGHTING PROCEDURES:

If water is used, use a soft fog to avoid spreading contamination. Use self-contained breathing apparatus and full protective gear in confined areas of buildings. Contain water to prevent entry into water supplies.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fire fighters should use self contained breathing apparatus and full turnout gear. Prevent runoff of fire water. Avoid exposure to smoke.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Dike the area using absorbent or materials such as sand or clay. Recover and contain as much product as possible using absorbent. Clean spill area using a solution of water and detergent. Collect and contain wash water and all

contaminated absorbent for disposal. If spilled on the ground, the affected area should be excavated to a depth of 1 - 2 inches. Prevent the spilled product or washings from reaching public sewers or waterways. Wear appropriate protective equipment during the cleanup. Ensure that tools and equipment are adequately decontaminated.

REPORTABLE QUANTITY (RQ) UNDER CERCLA:

Not listed

7. HANDLING AND STORAGE

STORAGE TEMPERATURES:

INDOOR OUTDOOR REFRIGERATED

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in area designated specifically for pesticides. Do not store near any material intended for use or consumption by humans or animals. Store in a cool place. Do not store in direct sunlight. Protect from freezing temperatures. Do not contaminate water, food, or feed by storage, disposal, or by cleaning of equipment. Do not reuse empty container. Open dumping is prohibited.

OTHER PRECAUTIONS: N/A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME

EXPOSURE LIMITS

Atrazine (technical)

- OSHA PEL - N/E , ACGIH TLV – 5 mg/m³

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VALUES ARE 8-HR. TIME-WEIGHTED-AVERAGES UNLESS OTHERWISE SPECIFIED

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (cont.)

ENGINEERING CONTROLS: Local exhaust or general ventilation to maintain exposure below PEL.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Safety glasses or goggles.

HAND/SKIN PROTECTION: Long-sleeved shirt and long pants. Waterproof gloves. Chemical-resistant footwear plus socks.

RESPIRATORY PROTECTION: Dust/mist filtering respirator or a NIOSH approved respirator with any N, R, P or HE filter if excessive dusting occurs.

WORK PRACTICES: Minimize exposure. Wear appropriate PPE to prevent the probability of exposure and personal contact. Wash with soap and rinse thoroughly after handling material and before eating, drinking, smoking or using restroom facilities. Shower after each shift. Deluge safety shower and eye wash should be located in work area.

NOTE TO END-USERS: *The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment*

requirements on the product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Fine granules	pH (AS IS):	N/E
BOILING POINT (°F):	N/E	SOLUBILITY (WATER):	Miscible
BULK DENSITY:	30 lbs./cu. ft. +/- 0.4 lbs.	SPECIFIC GRAVITY:	N/E
COLOR:	Grayish Tan	VAPOR DENSITY (Air = 1):	N/E
EVAP. RATE (BuAc=01):	N/E	VAPOR PRESSURE (mmHg):	N/E
FREEZING POINT (°F):	N/E	VISCOSITY:	N/E
ODOR:	Slightly sweet	% VOLATILE BY VOLUME:	N/E

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	N/E
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong acids
HAZARDOUS DECOMPOSITION PRODUCTS:	Ammonia, hydrogen chloride, ethyl chloride, and carbon monoxide at high temperatures.
STABILITY:	<input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE
HAZARDOUS POLYMERIZATION:	<input type="checkbox"/> WILL OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

ORAL LD₅₀
Rat = 4346 mg/kg

DERMAL LD₅₀
Rabbit = >3100 mg/kg

INHALATION LC₅₀
N/D

EFFECTS TO EYES:

Moderately irritating.

EFFECTS TO SKIN:

Slightly irritating.

11. TOXICOLOGICAL INFORMATION (cont.)

CARCINOGENICITY REFERENCE SOURCES:

I.A.R.C.	Yes	N.T.P.	Yes	O.S.H.A.	<input type="checkbox"/> Yes
	X No		X No		<input checked="" type="checkbox"/> No

Crystalline silica (CAS#14808-60-7) - <1% of this product is considered a group 1 carcinogen by IARC which indicates that there is evidence of carcinogenicity in humans. NTP considers it a Group 1 substance for which there is sufficient evidence of carcinogenicity from studies in humans to indicate a causal relationship between the agent and human cancer.

12. ECOLOGICAL INFORMATION

Groundwater Protection: Atrazine has been found in groundwater. Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table is close to the surface and where these soils are very permeable (i.e. well drained). See label for more detailed information.

13. DISPOSAL CONSIDERATIONS

RCRA – FEDERAL HAZARDOUS WASTE INFORMATION: N/A*

* See 40 CFR Part 261 and contact your local regulatory agency for additional information and requirements.

PESTICIDE DISPOSAL:

Dispose of waste at an approved disposal facility.

CONTAINER DISPOSAL:

Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

REGULATED BY: Domestic Road/Rail (DOT)
 Export Water (IMO)
 Air (ICAO/IATA)
 Not regulated as a hazardous material by any mode of transportation.

DOMESTIC ROAD/RAIL (DOT)**For Package Sizes:** *Not regulated. [If shipped non-bulk in US over highway.]***Proper Shipping Name:** N/A (not regulated).**ERG Number:** N/A**Placard (>1001 lbs.):** N/A**Other Information:** N/A**Marine Pollutant?** Yes No **Chemical (s):** NA**EXPORT WATER (IMO)***Contact Agrilience LLC Environmental Health & Safety for additional information.***AIR (ICAO/IATA)***Contact Agrilience LLC Environmental Health & Safety for additional information.***FREIGHT TARIFF DESCRIPTION****Rate As:** Compound weed killing, Agriculture, N.O.I., Solid**15. REGULATORY INFORMATION****SARA HAZARD CATEGORY** This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendments and Reauthorization Act Of 1986 (Sara Title III) and is considered, under applicable definitions, to meet the following categories:**CERCLA/SARA:** N/A**TPQ:** N/A**RQ:** N/A**SARA 313 INFORMATION** This product contains the following substances subject to the reprint requirements of SARA Title III, Section 313 and 40 CFR Part 372:**CHEMICAL NAME**

N/A

CAS NUMBER

N/A

CONCENTRATION

N/A

16. OTHER INFORMATION

HMIS RATINGS		NFPA RATING	
HEALTH	1	HEALTH	1
FLAMMABILITY	0	FLAMMABILITY	0
REACTIVITY	0	REACTIVITY	0
PERSONAL PROTECTION	B	SPECIFIC HAZARD	N/A

ABBREVIATION KEY

N/A = Not Applicable
 STEL = Short Term Exposure Limit
 rf = Respirable Fraction
 N/E = Not Established
 C = Ceiling Limit
 N/D = Not Determined
 SKIN = Skin Notation
 td = Total Dust

Revision :2

Date :07/08/05

Supersedes :01/05/04

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