

**1: IDENTIFICATION**

<b>Chemical Name</b>	6-chloro-4-N-ethyl-2-N-propan-2-yl-1,3,5-triazine-2,4-diamine		
<b>Synonyms</b>	Atrazine 50% WP	<b>Trade Name</b>	ATRAZ
<b>Uses</b>	Herbicide	<b>Molecular Formula</b>	C <sub>8</sub> H <sub>14</sub> ClN <sub>3</sub>
<b>Manufacturer/ Supplier</b>	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
<b>Emergency Contact</b>	9503095030	<b>E-mail</b>	<a href="mailto:info@agrostar.in">info@agrostar.in</a>

**2: COMPOSITION/INFORMATION OF INGREDIENTS**

Chemical Name	CAS #	Percent or Content (w/w)
Atrazine	1912-24-9	50.00%
Other Ingredients	-	50.00%

**3: HAZARD IDENTIFICATION**

<b>Physical/Chemical Hazard:</b>	Acute Toxicity - Oral Category 4	Eye Damage/Irritation Category 2B
	Specific Target Organ Toxicity (Repeated Exposure) Category 2	
<b>Human health Hazard:</b>	H302 Harmful if swallowed;	H320 Causes eye irritation;
	H373 May cause damage to organs through prolonged or repeated exposure.	
<b>Environmental Hazard:</b>	H400 Very toxic to aquatic life	H410 Very toxic to aquatic life with long lasting effects

**4: FIRST AID MEASURES**

**General:** Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.

**Inhalation:** Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing is difficult, treat with artificial respiration. Immediately seek medical attention if symptoms are severe or persist

**Ingestion:** Rinse mouth with water thoroughly and give plenty of water to drink. Induce vomiting by touching the back of the throat with finger. Never give anything by mouth to an unconscious person. Seek medical attention or poison control center immediately and show this container or label.

**Skin Contact:** In case of contact with product, remove contaminated clothes and wash exposed skin area with plenty of water and soap immediately. Seek medical attention if irritation persists.

**Eye Contact:** Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

**Note to physician:** No specific Antidote. Treat symptomatically.

**5: FIRE FIGHTING MEASURES**

**Extinguishing Media:** Water spray or fog, alcohol-resistant foam, dry chemical powder or carbon dioxide

**Unsuitable Extinguishing Media:** Solid water stream as it may scatter and spread fire.

**Specific Hazards:** In the event of fire, dense black smoke containing hazardous products of combustion is produced as the product contains combustible organic components. Exposure to decomposition products may be a hazard to health.

**Hazardous Thermal (de)composition:** Toxic and irritating vapours or gases will release on combustion.

**Special Procedures:** Evacuate area and fight fire upwind from a safe distance. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinguishing small fire and alcohol-resistant foam or water spray for extinguishing large fire. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Do not discharge extinguishing water into the drain or water bodies.

**Protection of Fire Fighters:** Do not breathe a fumes, Wear fire/ flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

**6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Avoid dust formation. Use personal protective equipment. Evacuate personnel to safe areas and keep them away from and upwind of spill/leak.

**Environmental Precaution:** Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

**Methods for Cleaning-up:** Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations. Do not create a powder cloud by using a brush or compressed air. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of in accordance with local regulations.

**7: HANDLING & STORAGE**

**Handling:** Do not smoke, drink, or eat during handling. Wash hands and other exposed areas with mild soap and water before and after handling material. Wear protective equipments to avoid contact and/or inhalation with the product. Wash clothing and equipment before reuse. Good personal hygiene procedures must be practiced.

**Specific Conditions:** Good local exhaust ventilation.

**Storage:** Store in dry, cool, well-ventilated area and away from direct sunlight. Keep in original container and tightly closed when not in use. Keep product away from seeds, fertilizer, foods and animal feeds. Keep out of reach of the children.

## 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation and set up emergency exits and the risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.

**General Protection:** Avoid breathing dust, vapours or aerosols. Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

**Personal Protection:** Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

**Respiratory Protection:** Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

**Skin Protection:** Wear suitable protective clothing, including long sleeved shirt, long pants, gloves, coveralls, and boots to avoid skin contact.

**Hand Protection:** Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

**Eye Protection:** Safety goggles, chemical splash goggles or face shield should be used. Safety showers and eyewash should be easily available.

**Others:** Wash clothing before reusing.

## 9: PHYSICAL/CHEMICAL PROPERTIES

**Appearance:** Free flowing powder

**Physical State:** Solid

**Odour:** Odourless

**Colour:** White to off-white

**pH:** 5 - 8 (1% Aqueous solution)

**Solubility in Water:** No data available

**Bulk Density [gm/ml]:** 0.40 - 0.60

**Flash Point [°C]:** 93.3

**Decomposition Temp. [°C]:** 500

## 10: STABILITY & REACTIVITY

**Stability:** Stable under normal circumstances.

**Conditions to Avoid:** Heat, flames and sparks.

**Hazardous Decomp. Products:** On combustion or thermal decomposition, toxic and irritating fumes/vapors may be released.

**Materials to Avoid:** No substances are known which lead to the formation of hazardous substances or thermal reactions.

## 11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >2000

Rat inhalation LC50 [mg/l/4h] : >5.8

Skin irritation (rabbit): Mild irritant

Dermal (rat) LD50 [mg/kg]: >2000

Skin Sensitization (Guinea Pig): Sensitizer

Eye irritation (rabbit): Moderate irritant

## 12: ECOLOGICAL INFORMATION

**Ecotoxicity:**

Crap fish LC50 (96 hrs) [mg/L]: 4.3

Daphnia magna EC50 (48 hrs) [mg/L]: 6.9

Mallard Ducks LC50 (96 hrs) [mg/kg]: > 5000

**Bio-accumulation Potential:** Low potential

**Persistence, Degradability and Mobility in soil:** Not persistent in soil; Highly mobile in soil; Will leach.

## 13: DISPOSAL CONSIDERATION

**Waste-disposal Procedures:** Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations

**Contaminated Packaging:** Empty remaining contents and the rinse containers thrice before disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers unless they are specifically designed to be refilled

## 14: TRANSPORT INFORMATION

**UN No.** 3077

**Proper Shipping Name:** Environmentally Hazardous Substance, solid, N.O.S Atrazine

**Land Transport (ADR/RID):** Class-9, Packing Group-III

**Sea Transport (IMO) (IMDG):** Class-9, Packing group-III, Marine Pollutant-Yes

**Air Transport (IATA / ICAO):** Class-9 Packing group-III, Environmental hazard mark-Yes

## 15: REGULATORY INFORMATION

**Hazard Symbol:** GHS07, GHS08

**H- Statement:** H302, H320, 373

## 16: OTHER INFORMATION

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