

**MATERIAL SAFETY DATA SHEET**

Sipcam Agro USA, Inc. 70 Mansell Court, Suite 230 Roswell, GA 30076	In Case of Emergency, Call Sipcam Agro USA, Inc.: 770-587-1032 CHEMTREC: 800-424-9300
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**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**

313 Chemical: Ethylene glycol (4% wt/wt)                      CAS# 107-21-1  
 312 Hazards Classification: Acute and Chronic Health Hazard

**III. PRODUCT IDENTIFICATION**

Product Names: Atrazine 4L Herbicide  
 Active Ingredient: Atrazine (40.8% wt/wt)                      CAS# 1912-24-9  
 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/m3	5mg/m3	No
Ethylene Glycol	125mg/m3	125mg/m3	No

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

Boiling Point:                      103°C ± 5°C  
 Melting Point:                      Not Applicable  
 Vapor Pressure:                      \*6.6x10<sup>-7</sup> mm Hg@25°C  
 Solubility in H2O:                      \*33 ppm at 20°C  
 Evaporation Rate:                      Not Available  
 Appearance and Odor:                      White liquid, odorless  
 pH:                      Not Available  
 Specific Gravity:                      1.12 at 20°C Typical

**VI. FIRE AND EXPLOSION DATA**

Flash Point:                      Not Available  
 Autoignition Temperature:                      Not Available  
 Flammable Limits (% in Air):                      Not Available  
 Unusual Fire and Explosion Hazards:                      None Known

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

Ingestion:	Slightly Toxic; Oral LD <sub>50</sub> (Rat) = 1,075 to 1,886 mg/kg body weight
Dermal Absorption:	Practically non-toxic; Dermal LD <sub>50</sub> (Rabbit) >5000 mg/kg body weight
Inhalation:	Slightly Toxic; Inhalation LC <sub>50</sub> (Rat; 4-hour) > 2.38 mg/liter of air
Eye Contact:	Mildly irritating (Rabbit)
Skin Contact:	Mildly irritating (Rabbit)
Skin Sensitization:	Sensitizing (Guinea Pig)

**Symptoms of Acute Exposure**

Exposure to Atrazine 4L may cause irritation of the eyes, skin, or respiratory tract. If swallowed, nausea, vomiting, or diarrhea can result. A skin sensitization (allergic) reaction may occur 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 male 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. Atrazine caused no adverse reproductive effects over two generations of rats and was not teratogenic in rats or rabbits. Atrazine has been reported to caused 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. A metabolite of Atrazine, 2,3-diamino-6-chloro-s-triazine (DACT) has caused cardiotoxicity in dogs at high doses.

**Toxicity of Other Components**

Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice. There is, however, no information suggesting that ethylene glycol has caused birth defects in humans. Severe kidney damage results from swallowing large volumes of ethylene glycol.

**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 advise 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. Apply artificial respiration if necessary.

**NOTES TO PHYSICIAN**

There is no specific antidote if Atrazine 4L is ingested. If a large amount has been ingested and emesis has been inadequate, lavage stomach. Five mg/kg of activated charcoal suspension (50g/400ml water) can be given to absorb the remaining toxicant.

Based on the acute oral LD<sub>50</sub> in rats, ingestion of 2 ounces or more of Atrazine 4L 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 4L.

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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 an NIOSH-approved dust or pesticide respirator. For small spills, cover the spill with an absorbent material. Sweep up the material and place in an appropriate 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 an 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.