

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

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: *6.6x10⁻⁷ 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 ₅₀ (Rat) = 1,075 to 1,886 mg/kg body weight
Dermal Absorption:	Practically non-toxic; Dermal LD ₅₀ (Rabbit) >5000 mg/kg body weight
Inhalation:	Slightly Toxic; Inhalation LC ₅₀ (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 LD₅₀ 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.

VIII. REACTIVITY DATA

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.

IX. SPILL OR LEAK PROCEDURES

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.

X. INDUSTRIAL HYGIENE CONTROL MEASURES

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.

XI. SPECIAL PRECAUTIONS

In Case of Fire

Use dry chemical, foam, or CO₂ 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.