

# SIMAZINE 4L

## MANUFACTURER

RIVERSIDE/TERRA CORP.  
600 FOURTH STREET  
SIOUX CITY, IOWA 51101  
For Emergency Call: 501-763-8968  
or Chemtrec: 1-800-424-9300  
Product Code: 665307  
EPA Reg. No.: 9779-296  
Effective Date: 10-01-95  
Supersedes: 01-01-92

## I. IDENTIFICATION

CHEMICAL NAME OF PRIMARY COMPONENT(S): 2-chloro-4,6-bis-(ethylamino)-s-triazine  
FORMULA: C<sub>7</sub>H<sub>12</sub>N<sub>5</sub>Cl  
SYNONYMS: Simazine  
CAS #: 122-34-9  
MOLECULAR WEIGHT: 201

## II. INGREDIENTS/SUMMARY OF HAZARDS

INGREDIENT(S)	CAS NUMBER	OSHA HAZARD (H)/ NON-HAZARD (NH)	PERCENT
Simazine	122-34-9	H	41.9
Ethylene glycol	107-21-1	H	3

**WARNING STATEMENTS:** HARMFUL IF SWALLOWED OR INHALED. Avoid breathing mist and/or vapor. Causes eye and skin irritation. Do not get in eyes or on skin. Wash thoroughly after handling. Wear goggles or face shield, rubber gloves, and protective clothing when handling.

(See Section VI for Complete Health Hazard Data.)

	NFPA <sup>1</sup>	HMS <sup>2</sup>
HEALTH	2	2
FIRE	1	1
REACTIVITY	0	0

<sup>1</sup> National Fire Protection Association Rating

<sup>2</sup> Hazardous Materials Identification System

1=Extreme Severe 3=High/Serious 2=Moderate 1=Slight 0=Minimum

Sara Title III Hazard Classification

IMMEDIATE (ACUTE) HEALTH	Yes
DELAYED (CHRONIC) HEALTH	Yes
FIRE	No
SUDDEN RELEASE OF PRESSURE	No
REACTIVE	No

## III. PHYSICAL DATA

SPECIFIC GRAVITY: 1.14  
BOILING POINT, 760 mmHg: 100 C  
MELTING POINT: Not applicable.  
VAPOR PRESSURE: Unknown.  
VAPOR DENSITY (AIR=1): Unknown.  
SOLUBILITY IN WATER: Disperses 100%  
APPEARANCE AND ODOR: Viscous off-white liquid, no odor  
For additional technical information call 1-800-424-9300 Riverside/Terra emergency.

## IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable.  
FLAMMABLE LIMITS IN AIR: Not applicable.  
AUTOIGNITION TEMPERATURE: Not applicable.

**EXTINGUISHING MEDIA:** Not combustible. Use appropriate extinguishing media for material that is supplying fuel. Dry chemical, carbon dioxide, water, foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Provide for protection of employees and local residents. Evacuate residents who are downwind of fire. Prevent unauthorized entry into fire area. Dike area to prevent contamination of water sources.

Persons who may have been exposed to contaminated smoke should be immediately relieved from duty and checked for symptoms of poisoning. See Section VI, Health Hazard Data, for symptoms of poisoning, first aid procedures, and notes to physicians.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep fire-exposed containers cool with water spray. Containers may rupture violently if overheated (boiling water).

## V. REACTIVITY DATA

**STABILITY:** Stable at ambient temperatures and atmospheric pressure.  
**CONDITIONS TO AVOID:** Elevated temperatures can cause containers to burst. After fire is controlled, do not handle containers until they have returned to ambient temperature.

**MATERIALS TO AVOID:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Ammonia, HCl, ethyl chloride, carbon monoxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES

### EXPOSURE LIMITS:

CHEMICAL NAME(S)	ACGIH (TLV)	OSHA (PEL)
Simazine	not established	not established
Ethylene glycol	125 mg/m <sup>3</sup>	125 mg/m <sup>3</sup>

### TOXICOLOGY DATA:

Oral LD<sub>50</sub> (rat): >5000 mg/kg

Dermal LD<sub>50</sub> (rabbit): >2000 mg/kg

Inhalation LC<sub>50</sub> (rat-4 hr exposure): >9 mg/L

Skin effects (rabbit): Mild irritant.

Eye effects (rabbit): Mild irritant.

**CARCINOGENICITY:** Simazine is not listed by IARC, NIOSH, or NTP.  
**SIGNS OF POISONING:** See Section VI, Effects of Single Overexposure.

### EFFECTS OF SINGLE OVEREXPOSURE:

**Swallowing:** Harmful if swallowed. May cause nausea and vomiting.

**Skin Absorption:** Harmful if absorbed through the skin.

**Inhalation:** Harmful if inhaled.

**Skin Contact:** May cause skin irritation. Avoid contact with skin. Wash after handling.

**Eye Contact:** May cause eye irritation. Avoid contact with eyes.

### OTHER EFFECTS OF OVEREXPOSURE OR REPEATED OVEREXPOSURE:

**SYSTEMIC & OTHER EFFECTS:** Long-term exposure to simazine is not known to cause any chronic ill effects in humans.

Lifetime exposure to high doses of simazine in the diet of Sprague-Dawley rats resulted in increased incidence of mammary tumors. This effect was not seen in other strains of rat or in other species, and is not expected to be a hazard to humans.

**EMERGENCY AND FIRST AID PROCEDURES:** Remove the patient from immediate source of exposure and assure that the individual is breathing. If not breathing, use artificial respiration. GET MEDICAL ATTENTION.

**Swallowing:** If victim is conscious and alert, give two or more glasses of water to drink. Never give anything by mouth to an unconscious or convulsing person. GET MEDICAL ATTENTION.

**Skin:** Wash all affected areas with plenty of soap and running water for at least 15 minutes.

Remove contaminated clothing and shoes. Seek medical attention immediately.

Discard any contaminated clothing and shoes.

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**Inhalation:** Remove victim to fresh air. If not breathing, administer cardiopulmonary resuscitation or artificial respiration.

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes using an eyewash fountain, if available. Lift upper and lower lids and rinse well under them. GET MEDICAL ATTENTION.

**NOTES TO PHYSICIAN:** There is no specific antidote. Treat symptomatically. The possibility of exposure to agents other than simazine should be considered.

▶ **VII. PRECAUTIONS FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Personnel involved in cleaning up a spill or stopping a leak should wear impervious protective clothing, including rubber gloves and face shield or goggles.

A small liquid spill or leak can be handled routinely by diking with dirt, sand, or other absorbent material. Remove off contaminated area.

Large spill should be handled according to a predetermined plan.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, State, and Federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Do not get in eyes, on skin, or on clothing. Store in a cool, dry place in proper containers.

▶ **VIII. SPECIAL PROTECTION INFORMATION**

**PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:**

- Manufacture or formulation of this product.
- Repair and maintenance of contaminated equipment.
- Clean up of leaks and spills.
- Use of product according to label directions.

— Any other activity that may result in hazardous exposures.

**RESPIRATORY PROTECTION:** Not normally required.

**VENTILATION:** Use local exhaust as needed to ventilate work area.

**PROTECTIVE CLOTHING:** Long sleeve shirt and long pants, water-proof gloves, shoes plus socks.

**EYE PROTECTION:** Not normally required.

▶ **IX. REGULATORY STATUS**

**DOT INFORMATION:**

**Container Capacity:** All.

**Proper Shipping Name:** Not regulated.

**Hazard Class:** None.

**Label:** None.

**Packing Group:** None.

**SARA TITLE III**

**Section 302-304 (40 CFR 350):** Not listed.

**Extremely Hazardous Substance (EHS):** Not listed.

**Threshold Planning Quantity (TPQ):** Not applicable.

**Reportable Quantity (R.Q.):** None.

**Reporting Status:** Mixture, liquid.

**Reporting Hazards:** Acute, chronic.

**Section 313 Reporting (40 CFR 372):** Ethylene glycol.

**RCRA Hazardous Waste:** P044

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