

MATERIAL SAFETY DATA SHEET

WINFIELD SOLUTIONS, LLC

PRODUCT NAME(S)For Emergency Call: 800-228-5635 or
Chem Trec: 800-424-9300**SIMAZINE 4L**

Effective Date: 09/14/07

I. IDENTIFICATION**CHEMICAL NAME OF PRIMARY COMPONENT(S):** 2- Chloro- 4,6- bis (ethylamino)- s- triazine**FORMULA:** C₇H₁₂Cl N₅**MOLECULAR WEIGHT:** 201.67**SYNONYMS:** Simazine**CAS # & NAME:** 122-34-9 Simazine**EPA Reg No.** 9779-296**II. INGREDIENTS/SUMMARY OF HAZARDS**

(H)/INGREDIENT(S)	CAS NUMBER	OSHA HAZARD NON-HAZARD (NH)	PERCENT
Simazine	122-34-9	H	41.9%
Ethylene Glycol	107-21-1	H	3.0 %
Formulation aids		NH	55.1%

	NFPA ^{1/}	HMIS ^{2/}
HEALTH	2	2
FIRE	0	0
REACTIVITY	0	0

1/ National Fire Protection Association Rating

2/ Hazardous Materials Identification System

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

SARA TITLE III HAZARD CLASSIFICATION

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

III. PHYSICAL DATA

SPECIFIC GRAVITY: 1.112
BOILING POINT: 212°F
FREEZING POINT: Not determined
VAPOR PRESSURE: Not determined
SOLUBILITY IN WATER: Dispersible
APPEARANCE: White to off-white liquid
ODOR: No distinctive odor

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable
FLAMMABLE LIMITS IN AIR: Not determined
AUTOIGNITION TEMPERATURE: Not determined
EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer or ordinary) for large fires. Water stream may spread flames.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should use self contained breathing apparatus and full turnout gear. Prevent runoff of fire water. Avoid exposure to smoke.

V. REACTIVITY DATA

STABILITY: Stable under normal conditions.
CONDITIONS TO AVOID: Excessive heat.
MATERIALS TO AVOID: None known
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia, hydrogen chloride, ethylchloride, and carbon monoxide.
HAZARDOUS POLYMERIZATION: Will not occur.

VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES**TOXICOLOGY DATA:**

Acute Oral LD₅₀ (rat): >5000 mg/kg (technical)
Acute Dermal LD₅₀ (rabbit): >3100 mg/kg (technical)
Acute Inhalation: Not determined
Eye Irritation (rabbit): Non irritant
Dermal Irritation (rabbit): Non irritant
Dermal Sensitization: Not determined

EXPOSURE LIMITS:

CHEMICAL NAME(S)	ACGIH (TLV)	OSHA (TWA)
Simazine Ethylene glycol	Not established 50 ppm	Not established Not established

CARCINOGENICITY, TERATOGENICITY, MUTAGENICITY: Not listed as a carcinogen by NRC, IARC or OSHA

SIGNS OF POISONING: Nausea, gastric distress

PRIMARY ROUTES OF ENTRY: Ingestion, skin contact.

EFFECTS OF SINGLE OVEREXPOSURE:

Swallowing: Harmful if swallowed. May cause nausea, gastric distress.

Skin Absorption: May cause skin irritation.

Eyes: May cause eye irritation.

Inhalation: May cause irritation of the respiratory tract

EFFECTS OF REPEATED OVEREXPOSURE: May be mildly irritating to skin, eyes, and upper respiratory tract. Systemic toxicity is unlikely unless very large amounts have been ingested. Long-term exposure to low levels of the material is not known to cause any ill effects in humans.

OTHER EFFECTS OF OVEREXPOSURE: None known

EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate preexisting skin conditions. Inhalation of mists may aggravate preexisting respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES:

Swallowing: Call physician or poison control center. If patient is alert and not convulsing give 1 - 2 glasses of water and induce vomiting by tickling the back of the throat or administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

Skin: Wash affected area with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing separately. Get medical attention if irritation develops and persists.

Eyes: Hold eyelids open and flush with a steady stream of water for at least 15 minutes. GET MEDICAL ATTENTION if irritation develops and persists.

Inhalation: Remove victim to fresh air. If not breathing, administer artificial respiration. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN: There is no specific antidote if ingested. Induce emesis or lavage stomach only if a significant quantity has been ingested. A slurry of 30 to 50g activated charcoal in water can be left in the stomach. Give a suitable saline laxative and supportive therapy.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF 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.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

CONTAINER DISPOSAL: Dispose of in an approved facility according to federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, dry, secure area away from sources of heat.

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.
- Any other activity that may result in hazardous exposures.
- Refer to product label for PPE required for labeled use.

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirator for organic vapors. Use positive pressure contained breathing apparatus where emergency conditions or where exposure limits are exceeded.

VENTILATION: Local exhaust

PROTECTIVE CLOTHING: Chemical resistant gloves, coveralls, apron and foot coverings.

EYE PROTECTION: Safety goggles

USER SAFETY RECOMMENDATIONS: Safety showers and eye wash should be easily accessible.

IX. REGULATORY STATUS

TSCA INVENTORY STATUS:

TRANSPORTATION STATUS:

DOT INFORMATION: Not regulated

Container Capacity	Proper Shipping Name	Hazard Class	Label	Packing Group

SARA TITLE III

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

Extremely Hazardous Substance (EHS): Not applicable

Section 312, Reporting (40 CFR 370):

SARA/OSHA Hazardous Chemical Reporting Quantity 10,000 pounds

Section 313, Toxic Chemicals: Ethylene glycol, Simazine

Reportable Quantity (RQ): Ethylene glycol - 5000 pounds

RCRA HAZARDOUS WASTE: Not listed

International Right-To-Know Regulations:

X. REFERENCES

- 1) Supplier sponsored studies.

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