SAFETY DATA SHEET

Revision Date 22-Jun-2016

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name **SIMAZINE 4L**

Other means of identification

EPA Reg. No.: 9779-296

Product ID/Unity Item No.: 10000777, 10012975, 10014720, 10128018

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Agricultural Insecticide- See product label for complete list of uses and sites.

Uses advised against See product label for information regarding restriction on the use of this product.

Supplier's details

Supplier Address
Winfield Solutions, LLC.
P.O. Box 64589
St. Paul, MN 55164-0589

For Non-Emergency Business Inquiries:
1-855-494-6343 Mon-Fri, 8am-5pm CST

Emergency telephone number

Emergency Telephone Number FOR MEDICAL EMERGENCY: 1-877-424-7452 (24hrs)

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Acute Inhalation Toxicity - Dusts and Mists	Category 4
Serious Eye Damage/Eye Irritation	Category 2B
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

GHS Label elements, including precautionary statements

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Emergency Overview

Signal Word **Warning**

Hazard Statements

• Harmful if inhaled
• Causes eye irritation
• May cause damage to organs through prolonged or repeated exposure

Appearance White to off-white. **Physical State** Liquid. **Odor** No distinct odor.

Precautionary Statements

Prevention

• Use only outdoors or in a well-ventilated area.
• Wash face, hands and any exposed skin thoroughly after handling.
• Do not breathe mist, vapors or spray.

General Advice

• Get medical attention/advice if you feel unwell

Eyes

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• If eye irritation persists: Get medical advice/attention.

Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
• Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

• None

Disposal

• Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

May be harmful if absorbed through skin.
Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms None

Chemical Name	CAS-No	Weight %	Trade secret
Simazine	122-34-9	41.9	*
Ethylene glycol	107-21-1	1-5	*
Nonylphenol ethoxylate	127087-87-0	1-5	*

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Skin Contact Wash skin with soap and water. Get medical attention if symptoms occur.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Eye irritation/reactions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, carbon dioxide (CO_2), alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media Do not use straight streams.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear protective gloves/clothing and eye/face protection. Refer to Section 8.

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Environmental Precautions

Environmental Precautions Do not allow spilled product to enter sewers or waterways. Collect spillage. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information. Avoid release to the environment.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material

Methods for Cleaning Up Prevent product from entering drains. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapors or spray. Remove and wash contaminated clothing separately before re-use.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from children, food or feed products.

Incompatible Products Strong acids. Strong bases. Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Simazine 122-34-9	TWA: 0.5 mg/m^3 inhalable fraction	-	-
Ethylene glycol 107-21-1	Ceiling: 100 mg/m^3 aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m^3	-

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side shields or safety goggles.
Skin and Body Protection Impervious clothing. Impervious gloves.
Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

NOTE TO END USERS: Personal protection equipment (PPE) and clothing listed in this section is for manufacturing, commercial blending and packaging workers. Applicators and handlers should refer to the pesticide product label for proper personal protective equipment and clothing.

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Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Provide regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing and gloves, including the inside, separately before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid.	**Appearance**	White to off-white.
Odor	No distinct odor.	**Odor Threshold**	No information available.

Property	Values	Remarks/ - Method
pH	6 - 8	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	Not flammable.	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	1.139	at 20 °C
Water Solubility	Dispersible	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Flammable Properties Not flammable

Explosive Properties No data available
Oxidizing Properties No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

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Conditions to avoid

Excessive heat. Do not store near heat or flames.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon monoxide (CO). Carbon dioxide (CO_2). Nitrogen oxides (NOx). Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Harmful if inhaled.
Eye Contact	Causes eye irritation.
Skin Contact	May be harmful if absorbed through skin.
Ingestion	Not expected to be toxic following ingestion.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Contact with the eyes may cause discomfort or pain with marked redness and swelling of the conjunctiva. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	Negative in Guinea Pig Maximization test.
Mutagenic Effects	Does not contain substances that are known or suspected to be mutagens.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Simazine	A3	Group 3	-	-

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to its Carcinogenicity to Humans

Reproductive Toxicity	No information available.
STOT - single exposure	None of the ingredients are known to cause specific target organ effects from a single exposure.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target Organ Effects	Eyes. Respiratory system. Skin. Kidney.
Aspiration Hazard	None of the ingredients are known to be an aspiration hazard.

Numerical measures of toxicity - Product

Acute Toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity.
LD50 Oral	> 5000 mg/kg; (rat)
LD50 Dermal	> 2000 mg/kg; (rabbit)
Inhalation	
dust/mist	1.86 mg/L; (rat, 4 hr)

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Simazine 122-34-9		LC50 96 h: > 10 mg/L static (Oncorhynchus mykiss) LC50 96 h: 3.5 - 7.15 mg/L static (Pimephales promelas) LC50 96 h: = 56 mg/L (Oncorhynchus mykiss) LC50 96 h: = 82 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: = 118 mg/L (Lepomis macrochirus) LC50 96 h: 9.9 - 26 mg/L static (Lepomis macrochirus) LC50 96 h: = 49 mg/L static (Poecilia reticulata)		EC50 48 h: 0.56 - 2.2 mg/L Static (Daphnia magna)
Ethylene glycol 107-21-1	EC50 96 h: 6500 - 13000 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 41000 mg/L (Oncorhynchus mykiss) LC50 96 h: 14 - 18 mL/L static (Oncorhynchus mykiss) LC50 96 h: = 27540 mg/L static (Lepomis macrochirus) LC50 96 h: = 40761 mg/L static (Oncorhynchus mykiss) LC50 96 h: 40000 - 60000 mg/L static (Pimephales promelas) LC50 96 h: = 16000 mg/L static (Poecilia reticulata)		EC50 48 h: = 46300 mg/L (Daphnia magna)
Nonylphenol ethoxylate 127087-87-0		LC50 (96hr): 3.8 - 6.2 mg/l (Pimephales promelas)	IC50 (16hr): >1000 mg/L (Bacteria)	EC50 (48hr): 9.3 - 21.4 mg/L

Persistence and Degradability No information available.

Bioaccumulation

Chemical Name	Log Pow
Simazine	2.18
Ethylene glycol	-1.93
Nonylphenol ethoxylate	2.1 - 3.4

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not Regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA Exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Simazine	122-34-9	41.9	1.0
Ethylene glycol	107-21-1	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ethylene glycol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Ethylene glycol	107-21-1	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Simazine	X	X			
Ethylene glycol	X	X	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number 9779-296

Difference between SDS and EPA Pesticide label

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION. Caused moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing.

16. OTHER INFORMATION

NFPA	**Health Hazard**	2	**Flammability**	0	**Instability**	0	**Physical and Chemical Hazards**	-
HMIS	**Health Hazard**	2*	**Flammability**	0	**Physical Hazard**	0	**Personal Protection**	X

**Indicates a chronic health hazard.*

Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet