



# Sim-Trol<sup>®</sup> 4L Simazine Flowable Herbicide

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Chemical Name	Mixture
Trade Names	Sim-Trol <sup>®</sup> 4L Simazine Flowable Herbicide
CAS No.	Mixture
EPA Identification Number	EPA Reg. No. 35915-11-60063

#### Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Herbicide
Uses Advised Against	Do <b>NOT</b> aerosolize or atomize to produce inhalable-size particles.

#### Details of the supplier of the safety data sheet

Company Identification	Sipcam Agro USA, Inc. 2525 Meridian Parkway, Suite 350 Durham, NC 27713 United States of America
Telephone	(919) 226-1195

#### Emergency telephone number

Emergency Phone No.	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 1; STOT RE 1; Repr. 1B
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#### Label elements

This chemical is a pesticide product registered by the United States 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 (SDS) and for workplace labels of non pesticide chemicals. The labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol(s)



Signal Word(s)

**DANGER**

Hazard Statement(s)

Causes serious eye irritation.  
Causes skin irritation.  
Causes damage to organs: Neuroendocrine system.  
Causes damage to organs through prolonged or repeated exposure: Neuroendocrine system.  
May damage fertility or the unborn child.



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## Precautionary Statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Use of high-pressure spray may cause toxic aerosols. Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wash hands and exposed skin after use.

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.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

IF SWALLOWED: Not normally required. Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

## Other hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

## Additional Information

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Simazine	42.8	122-34-9	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 1; H370 STOT RE 1; H372 Repr. 1B; H360 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Ethylene glycol	<5	107-21-1	Acute Tox. 4; H302 STOT RE 2; H373

Additional Information – None

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Treat symptomatically.

Skin Contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eye Contact

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.



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Ingestion	Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.
<b>Most important symptoms and effects, both acute and delayed</b>	Causes serious eye irritation. May damage fertility or the unborn child.
<b>Indication of any immediate medical attention and special treatment needed</b>	Call a POISON CENTER or doctor/physician if you feel unwell.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Non-combustible. As appropriate for surrounding fire. Do not use water jet.

### Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.

### Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Do not get in eyes. Avoid contact with skin. Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

### Environmental precautions

Prevent substance entering sewers.

### Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery. Collect spillage. Wash the spillage area with water. If possible prevent water running into sewers.

### Reference to other sections Additional Information

None  
None

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not get in eyes. Avoid contact with skin. Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection.

### Conditions for safe storage, including any incompatibilities

- Storage temperature
- Incompatible materials

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Strong oxidizing agents. Strong acids / bases.

### Specific end use(s)

Herbicide

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Occupational Exposure Limits

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SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	-----	-----	-----	-----	-----	-----

## Exposure controls

### Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles.  
Use low-pressure course spray only.

### Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Gloves (PVC, Neoprene, or Natural rubber).



Respiratory protection

Not normally required.



Thermal hazards

Not normally required.

### Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Liquid
Color.	White
Odor	Odourless
Odor Threshold (ppm)	Not available
pH (Value)	8.59
Melting Point/Freezing Point (C)	Not available
Boiling point/boiling range (°C)	>100
Flash Point (°C)	>93.33 Non-flammable.
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour Pressure (mmHg)	1.5 x 10 <sup>-8</sup> @ 25 °C
Vapour Density (Air=1)	Not available
Density (g/ml)	Not available
Specific Gravity	1.39 (Bulk Density)
Solubility (Water)	6.2 mg/l @ 22 °C
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	Not available



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Explosive properties	Not explosive
Oxidizing properties	Not available
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources. Extremely high or low temperatures.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids / bases.
<b>Hazardous decomposition product(s)</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours: acrid smoke. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Skin Contact, Eye Contact

**Information on toxicological effects**

Acute toxicity	Oral: LD50 >2000 mg/kg-bw (rat); Causes damage to organs: neuroendocrine system Dermal: LD50 >2000 mg/kg-bw (rat) Inhalation: LC50 >1.71 mg/L (rat)
Irritation/Corrosivity	Causes serious eye irritation. Causes skin irritation.
Sensitization	Not to be expected.
Repeated dose toxicity	Causes damage to organs through prolonged or repeated exposure: neuroendocrine system. NOEAL = 1.8 mg/kg-bw/day (rat)
Carcinogenicity	Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity	Not to be expected.
Reproductive toxicity	May damage fertility or the unborn child. NOAEL = 6.25 mg/kg/day

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

Simazine (CAS#122-34-9):

Short term	LC50 (96 hour): >10 mg/l (Oncorhynchus mykiss) LC50 (96 hour): 3.5 – 7.15 mg/l (Pimephales promelas) EC50 (48 hour): 0.056 – 2.2 mg/L (Daphnia magna) ErC50 (3 day): 0.9 mg/l (Chlamydomonas geitleri)
Long Term	Very toxic to aquatic life with long lasting effects.
<b>Persistence and degradability</b>	Persistent
<b>Bioaccumulative potential</b>	The product has low potential for bioaccumulation.
<b>Mobility in soil</b>	The product has high mobility in soil.
<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	None known.



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## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
<b>Additional Information</b>	None known.

## SECTION 14: TRANSPORT INFORMATION

	<b>Land transport (U.S. DOT)</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>UN number</b>	Not classified as dangerous for transport.	UN 3082	UN 3082
<b>Proper Shipping Name</b>		Environmentally hazardous substance, liquid, n.o.s. (Simazine)	
<b>Transport hazard class(es)</b>		9	9
<b>Packing group</b>		III	III
<b>Hazard label(s)</b>		Marine Pollutant	Misc. Hazardous Matl.
<b>Environmental hazards</b>		Yes	Yes
<b>Special precautions for user</b>		None Assigned	None Assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

## SECTION 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**TSCA (Toxic Substance Control Act) - Inventory Status:** All components listed or polymer exempt.

**EPA FIFRA Information for SDS Section 15 (Regulatory Information):**

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non pesticide chemicals.

The hazard information required on the pesticide label is reproduced below:

### CAUTION

Harmful if swallowed or if inhaled, or if absorbed through skin.  
Avoid contact with skin, eyes or clothing.  
Do not breathe mist/vapours/spray.

The pesticide label also includes other important information, including directions for use.

**Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):**

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Ethylene glycol	107-21-1	< 5	5000

**SARA 311/312 - Hazard Categories:**

Fire     Sudden Release     Reactivity     Immediate (acute)     Chronic (delayed)

**SARA 313 - Toxic Chemicals (40 CFR 372):**

Chemical Name	CAS No.	Typical %wt.
Simazine	122-34-9	~ 42.8
Ethylene glycol	107-21-1	< 5



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**SARA 302 - Extremely Hazardous Substances(40 CFR 355):**

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----	-----

**Proposition 65 (California):**

Chemical Name	CAS No.	Typical %wt.	Hazards
None	-----	-----	-----

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

**Date of preparation:** October 26, 2017

**Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:**

**Hazard Statement(s)**

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H360: May damage fertility or the unborn child.
- H370: Causes damage to organs.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

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