SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Chemical Name
Trade Names
CAS No.
EPA Identification Number

Mixture
Sim-Trol® 4L Simazine Flowable Herbicide
Mixture
EPA Reg. No. 35915-11-60063

Relevant identified uses of the substance or mixture and uses advised against
Identified Use(s)
Uses Advised Against

Herbicide
Do NOT aerosolize or atomize to produce inhalable-size particles.

Details of the supplier of the safety data sheet
Company Identification
Telephone
Emergency telephone number

Sipcam Agro USA, Inc.
2525 Meridian Parkway, Suite 350
Durham, NC 27713
United States of America
(919) 226-1195
CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887
(Collect calls accepted)

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; Rep. 1B

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.
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

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

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.
Sim-Trol® 4L Simazine  
Flowable Herbicide

Ingestion
Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

Most important symptoms and effects, both acute and delayed
Causes serious eye irritation. May damage fertility or the unborn child.

Indication of any immediate medical attention and special treatment needed
Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media
- Suitable Extinguishing Media
  Non-combustible. As appropriate for surrounding fire.
- Unsuitable Extinguishing Media
  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
None

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

Specific end use(s)
Herbicide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits
Sim-Trol® 4L Simazine
Flowable Herbicide

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>(6hr TWA) PEL (OSHA)</th>
<th>(6hr TWA) TLV (ACGIH)</th>
<th>(STEL) PEL (OSHA)</th>
<th>(STEL) TLV (ACGIH)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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^-8 @ 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
Sim-Trol® 4L Simazine
Flowable Herbicide

Explosive properties: Not explosive
Oxidizing properties: Not available
Other information: Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.
Chemical stability: Stable.
Possibility of hazardous reactions: None anticipated.
Conditions to avoid: Avoid contact with heat and ignition sources. Extremely high or low temperatures.
Incompatible materials: Strong oxidizing agents. Strong acids / bases.
Hazardous decomposition product(s): 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. NOEL = 1.8 mg/kg-bw/day (rat).
Carcinogenicity: Not to be expected.
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.
Persistence and degradability: Persistent
Bioaccumulative potential: The product has low potential for bioaccumulation.
Mobility in soil: The product has high mobility in soil.
Results of PBT and vPvB assessment: Not available.
Other adverse effects: None known.
Sim-Trol® 4L Simazine
Flowable Herbicide

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Dispensation should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information
None known.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Land transport (U.S. DOT) *</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
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</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN 3082</td>
<td>UN 3082</td>
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<td>Proper Shipping Name</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Simazine)</td>
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</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>9</td>
<td>9</td>
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<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
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<tr>
<td>Hazard label(s)</td>
<td>Marine Pollutant</td>
<td>Marine Pollutant</td>
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<tr>
<td>Environmental hazards</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None Assigned</td>
<td>None Assigned</td>
</tr>
</tbody>
</table>

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

* Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons).

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):  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>&lt; 5</td>
<td>5000</td>
</tr>
</tbody>
</table>

SARA 311/312 - Hazard Categories:

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

SARA 313 - Toxic Chemicals (40 CFR 372):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simazine</td>
<td>122-34-9</td>
<td>~ 42.8</td>
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<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>

Revision: November 3, 2016
SARA 302 - Extremely Hazardous Substances (40 CFR 355):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
<th>TPQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
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<td>-----</td>
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</tr>
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</table>

Proposition 65 (California):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

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

Date of preparation: November 9, 2015

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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