



# Sim-Trol® 90DF Simazine Dry Flowable Herbicide

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Date of issue: 05/26/2015

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Sim-Trol® 90DF Simazine Dry Flowable Herbicide

**Synonyms:** Triazine Herbicide

**Other means of identification:** EPA Reg. No. 35915-12-60063

### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Herbicide

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Manufacturer

Sipcam Agro USA, Inc.

2525 Meridian Parkway, Suite 350

Durham, NC 27713

T 919-226-1195

### 1.4. Emergency Telephone Number

**Emergency Number** : (800) 424-9300 CHEMTREC (transportation and spills) (800) 900-4044  
Poison Control Center (human health) (800) 345-4735 ASPCA (animal health)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Carc. 2 H351

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

### 2.2. Label Elements

#### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Warning

##### Hazard Statements (GHS-US)

: H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H351 - Suspected of causing cancer.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective gloves.  
P302+P352 - If on skin: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see section 4 on this SDS).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.

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P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

No additional information available

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name     | Product Identifier | %  | Classification (GHS-US)  |
|----------|--------------------|----|--|
| Simazine | (CAS No) 122-34-9  | 90 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Carc. 2, H351<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** May cause cancer. Causes skin irritation. Causes eye irritation.

**Symptoms/Injuries After Inhalation:** inhalation of vapors may cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** Ingestion may cause nausea, vomiting and diarrhea. Irritation of throat, stomach, and intestines.

**Chronic Symptoms:** May cause cancer.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Alcohol foam, carbon dioxide, dry chemical, water spray, fog. Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

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**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses. De-contaminate equipment or materials involved in pesticide fires.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Handle in accordance with good industrial hygiene and safety practice.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely.

### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

**Storage Area:** Store locked up.

### 7.3. Specific End Use(s)

Herbicide.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

### 8.2. Exposure Controls

**Appropriate Engineering Controls**

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Personal Protective Equipment**

: Protective goggles. Gloves.



**Hand Protection**

: Wear chemically resistant protective gloves.

**Eye Protection**

: Chemical goggles or safety glasses.

**Respiratory Protection**

: In case of insufficient ventilation, wear suitable respiratory equipment.

**Other Information**

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State**

: Solid

**Appearance**

: Grey-tan granules

**Odor**

: Odorless

**Odor Threshold**

: No data available

**pH**

: 9.89

**Evaporation Rate**

: No data available

**Melting Point**

: 225 - 227 °C (437 - 440.6 °F)

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|   |   |
|---|---|
| <b>Freezing Point</b>                         | : No data available   |
| <b>Boiling Point</b>                          | : No data available   |
| <b>Flash Point</b>                            | : Not flammable   |
| <b>Auto-ignition Temperature</b>              | : No data available   |
| <b>Decomposition Temperature</b>              | : No data available   |
| <b>Flammability (solid, gas)</b>              | : Not flammable   |
| <b>Vapor Pressure</b>                         | : 1.5x10 <sup>-8</sup> mmHg @25°C   |
| <b>Relative Vapor Density at 20 °C</b>        | : No data available   |
| <b>Relative Density</b>                       | : No data available   |
| <b>Specific Gravity</b>                       | : 0.597 mg/L @ 20°C   |
| <b>Specific gravity / density</b>             | : Bulk density: 0.597 mg/L  |
| <b>Solubility</b>                             | : Water: 6.2 mg/l @ 22°C  |
| <b>Partition Coefficient: N-Octanol/Water</b> | : No data available   |
| <b>Viscosity</b>                              | : No data available   |
| <b>Oxidation/Reduction Characteristics</b>    | : Compatible with water, monoammonium phosphate, iron powder, and kerosene. Not compatible with potassium permanganate. |

**9.2. Other Information** No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Product is stable.
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.
- 10.5. Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6. Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity:** Not classified

| Sim-Trol® 90DF Simazine Dry Flowable Herbicide |   |
|--|---|
| LD50 Oral Rat                                  | > 2000 mg/kg                                |
| LD50 Dermal Rat                                | > 4000 mg/kg                                |
| LC50 Inhalation Rat                            | > 2.22 mg/l/4h                              |
| Simazine (122-34-9)                            |   |
| LD50 Oral Rat                                  | 971 mg/kg                                   |
| LD50 Dermal Rat                                | > 10200                                     |
| LC50 Inhalation Rat                            | 9800 mg/m <sup>3</sup> (Exposure time: 4 h) |
| ATE (Oral)                                     | 971.00 mg/kg body weight                    |

**Skin Corrosion/Irritation:** Causes skin irritation.

pH: 9.89

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

pH: 9.89

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Suspected of causing cancer.

| Simazine (122-34-9) |   |
|---------------------|---|
| IARC group          | 3 |

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** inhalation of vapors may cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Redness, pain, swelling, itching, burning, tearing, and blurred vision.

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**Symptoms/Injuries After Ingestion:** Ingestion may cause nausea, vomiting and diarrhea. Irritation of throat, stomach, and intestines.

**Chronic Symptoms:** May cause cancer.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Harmful to aquatic life with long lasting effects.

| Simazine (122-34-9) |   |
|---------------------|---|
| LC50 Fish 1         | > 10 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])       |
| EC50 Daphnia 1      | 0.56 - 2.2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])       |
| LC 50 Fish 2        | 3.5 - 7.15 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| ErC50 (algae)       | 0.9 mg/l Chlamydomonas geitleri - 3 d   |

### 12.2. Persistence and Degradability

| Sim-Trol® 90DF Simazine Dry Flowable Herbicide |                  |
|--|------------------|
| Persistence and Degradability                  | Not established. |

### 12.3. Bioaccumulative Potential

| Sim-Trol® 90DF Simazine Dry Flowable Herbicide |                  |
|--|------------------|
| Bioaccumulative Potential                      | Not established. |

| Simazine (122-34-9) |                 |
|---------------------|-----------------|
| Log Pow             | 2.18 (at 20 °C) |

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Hazardous waste due to toxicity.

## SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

### 14.1. UN Number

**UN-No.(DOT)** : 3077  
**DOT NA no.** UN3077

### 14.2. UN Proper Shipping Name

**Proper Shipping Name (DOT)** : Environmentally hazardous substances, solid, n.o.s.  
(Simazine)

**Department of Transportation (DOT)** : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

**Hazard Classes**

**Hazard Labels (DOT)** : 9 - Class 9 (Miscellaneous dangerous materials)



**DOT Symbols** : G - Identifies PSN requiring a technical name

**Packing Group (DOT)** : III - Minor Danger

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**DOT Special Provisions (49 CFR 172.102)** : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:

- a. Metal: 11A, 11B, 11N, 21A, 21B and 21N
- b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2
- c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
- d. Fiberboard: 11G
- e. Wooden: 11C, 11D and 11F (with inner liners)
- f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).

B54 - Open-top, sift-proof rail cars are also authorized.

IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.

N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.

T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

**DOT Packaging Exceptions (49 CFR 173.xxx)** : 155

**DOT Packaging Non Bulk (49 CFR 173.xxx)** : 213

**DOT Packaging Bulk (49 CFR 173.xxx)** : 240

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## 14.3. Additional Information

Emergency Response Guide (ERG) Number : 171

### Transport by Sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

### Air Transport

DOT Quantity Limitations Passenger : No limit

Aircraft/Rail (49 CFR 173.27)

DOT Quantity Limitations Cargo Aircraft : No limit

Only (49 CFR 175.75)

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

| Sim-Trol® 90DF Simazine Dry Flowable Herbicide                            |  |
|---|--|
| SARA Section 311/312 Hazard Classes                                       | Delayed (chronic) health hazard  |
| EPA FIFRA Pesticide Product Notice  | 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. The pesticide label also includes other important information, including directions for use. |
| EPA FIFRA Signal Word   | Caution  |
| EPA FIFRA Hazard Statements   | Harmful in contact with skin and if swallowed. Moderate eye irritant.  |
| EPA FIFRA Precautionary Statements  | Avoid contact with eyes, skin and clothing.  |
| Simazine (122-34-9)   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| Listed on United States SARA Section 313                                  |  |
| SARA Section 313 - Emission Reporting                                     | 1.0 %  |

### 15.2 US State Regulations

| Simazine (122-34-9)  |
|--|
| U.S. - Massachusetts - Right To Know List                  |
| U.S. - New Jersey - Right to Know Hazardous Substance List |

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

|                       |   |
|-----------------------|---|
| Revision Date         | : 05/26/2015  |
| Indication of Changes | : Revision date.  |
| Other Information     | : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. |

### GHS Full Text Phrases:

|                       |  |
|-----------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4                               |
| Acute Tox. 4 (Oral)   | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 1       | Hazardous to the aquatic environment - Acute Hazard Category 1   |
| Aquatic Acute 3       | Hazardous to the aquatic environment - Acute Hazard Category 3   |
| Aquatic Chronic 1     | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Carc. 2               | Carcinogenicity Category 2                                       |
| Comb. Dust            | Combustible Dust   |
| Eye Irrit. 2A         | Serious eye damage/eye irritation Category 2A                    |
| Skin Irrit. 2         | Skin corrosion/irritation Category 2                             |
| STOT SE 3             | Specific target organ toxicity (single exposure) Category 3      |
|                       | May form combustible dust concentrations in air                  |

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|      |  |
|------|--|
| H302 | Harmful if swallowed                                 |
| H312 | Harmful in contact with skin                         |
| H315 | Causes skin irritation                               |
| H319 | Causes serious eye irritation                        |
| H335 | May cause respiratory irritation                     |
| H351 | Suspected of causing cancer                          |
| H400 | Very toxic to aquatic life                           |
| H402 | Harmful to aquatic life                              |
| H410 | Very toxic to aquatic life with long lasting effects |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)