

United Suppliers, INC  
 P.O. Box 538  
 Eldora, IA 50627

**In Case of Emergency, Call  
 1-800-424-9300**

### 1. PRODUCT IDENTIFICATION

Product Name: **Sentry Simazine 90 DF**  
 EPA Signal Word: Caution  
 Active Ingredient(%): Simazine (90.0%) 2-chloro-4,6-  
 Chemical Name: bis(ethylamino)-s-triazine Triazine  
 Chemical Class: Herbicide

CAS No.: 122-34-9

EPA Registration Number(s): 100-603-33270

Section(s) Revised: 2, 3, 5, 7, 11, 15, 16

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Kaolin Clay	15 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (respirable)	2 mg/m <sup>3</sup> TWA (respirable)	10 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> TWA (respirable)**	No
Crystalline Silica, Quartz	10 mg/m <sup>3</sup> /(%SiO <sub>2</sub> +2) (respirable dust)	0.05 mg/m <sup>3</sup> (respirable silica)	0.05 mg/m <sup>3</sup> (respirable dust)**	IARC Group 2A
Sodium Alkylnaphthalenesulfonate	Not Established	Not Established	15 mg/m <sup>3</sup> TWA (total No dust)*	
Dispersing Agent Simazine (90.0%)	15 mg/m <sup>3</sup> TWA (total) Not Established *	10 mg/m <sup>3</sup> TWA (total) Not Established	Not Established 10 mg/m <sup>3</sup> TWA *** No	No

recommended by manufacturer

\*\* recommended by NIOSH

\*\*\* Syngenta Occupational Exposure Limit (OEL)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.  
 Syngenta Hazard Category: B

### 3. HAZARDS IDENTIFICATION

#### Symptoms of Acute Exposure

Causes mild eye and skin irritation.

#### Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

#### Physical Properties

Appearance: Light beige to brown grey granules

Odor: Odorless

#### Unusual Fire, Explosion and Reactivity Hazards

This product is a combustible powder and like all combustible powders can ignite, burn and form explosive mixtures with air if not handled correctly. Mixtures of powder in air with flammable solvent vapors should be avoided. This product has a minimum ignition energy between 10 and 30 millijoules. Static electricity, mechanical sparks, open flames, and certain hot surfaces can serve as ignition sources for this material.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

#### 4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Chem Trec (800-424-9300), a poison control center or doctor, or going for treatment.

**Ingestion:** If swallowed: Call Chem Trec (800-424-9300), a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Eye Contact:** If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Chem Trec (800-424-9300), a poison control center or doctor for treatment advice.

**Skin Contact:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Chem Trec (800-424-9300), a poison control center or doctor for treatment advice.

**Inhalation:** If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Chem Trec (800-424-9300), a poison control center or doctor for further treatment advice.

##### Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

##### Medical Condition Likely to be Aggravated by Exposure

None known.

#### 5. FIRE FIGHTING MEASURES

##### Fire and Explosion

Flash Point (Test Method): Not Applicable

Flammable Limits (% in Air): Lower: % Not Applicable Upper: % Not Applicable

Autoignition Temperature: Not Available

Flammability: Not Applicable

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During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

##### In Case of Fire

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. Wear full protective clothing and self-contained breathing apparatus.

Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

#### 6. ACCIDENTAL RELEASE MEASURES

##### In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

#### 7. HANDLING AND STORAGE

Handle this material only in electrically conductive equipment. Electrically ground and bond this equipment as well as any worker who could contact a dust cloud formed of this material. Eliminate the presence of mechanical sparks and other ignition sources where dust clouds of this material could form. Bulk bags (FIBC) used to contain this material should be either type B or type C. If type C bags are used make sure they are electrically grounded before powder is discharged from the bag. Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light beige to brown grey granules

Odor: Odorless

Melting Point: 437 - 441°F

Boiling Point: Not Applicable

Specific Gravity/Density: 23.00 lbs./cu.ft.

pH: 7 - 10 (10% suspension in H<sub>2</sub>O)

Solubility in H<sub>2</sub>O

Simazine: 6.2 mg/l @ 72°F (22°C)

Vapor Pressure

Simazine: 2.2 x 10<sup>(-2)</sup> mmHg @ 77°F (25°C)

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: None known.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Practically Non-Toxic  
Oral (LD<sub>50</sub> Rat) : > 5,000 mg/kg body weight

Dermal: Slightly Toxic  
Dermal (LD<sub>50</sub> Rabbit) : > 2,000 mg/kg body weight

Inhalation:

Practically Non-Toxic  
 Inhalation (LC50 Rat) : > 2.5 mg/l air - 4 hours  
 Eye Contact: Minimally Irritating (Rabbit)  
 Skin Contact: Slightly Irritating (Rabbit)  
 Skin Sensitization: Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects

Simazine: None observed.

Chronic/Subchronic Toxicity Studies

Simazine: Decreased survival at high doses (rats).

Carcinogenicity

Simazine: Increased incidence of mammary tumors (female Sprague-Dawley rats) sex and species specific effect.

Other Toxicity Information

None

Toxicity of Other Components

Dispersing Agent

Dust may produce a respiratory allergenic response and/or irritation in some individuals.

Test results reported in Section 11 for the final product take into account any other acute hazards related to the dispersing agent in the formulation.

Kaolin Clay

Long term exposure to high concentrations of this dust may produce x-ray evidence of dust in the lungs.

Continued long term overexposure may affect respiratory function in some individuals.

Sodium Alkylphthalenesulfonate

Exposure can result in eye, skin and respiratory tract irritation.

Target Organs

Active Ingredients

Simazine: Mammary gland

Inert Ingredients

Dispersing Agent: Respiratory tract

Kaolin Clay: Lung

Sodium Eye, skin, respiratory tract

Alkylphthalenesulfonate:

**12. ECOLOGICAL INFORMATION**

Summary of Effects Simazine:

Practically nontoxic to birds and aquatic invertebrates. Slightly toxic to fish.

Bees LC50/EC50 > 99 ug/bee

Invertebrates (Water Flea) LC50/EC50 > 100 ppm

Fish (Trout) LC50/EC50 > 10 ppm

Eco-Acute Toxicity Fish (Bluegill) LC50/EC50 16 ppm

Simazine:

Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 10,000 ppm

Birds (8-day dietary - Mallard Duck) LC50/EC50 > 10,000 ppm

Eco-Chronic Toxicity

Simazine:

Invertebrate (Daphnia Magna) Life Cycle MATC 0.07 mg/L Mallard Reproduction NOEC 150 ppm

Bobwhite Reproduction NOEC 100 ppm

Environmental Fate Simazine:

The information presented here is for the active ingredient, simazine.

Low bioaccumulation potential. Not persistent in soil. Stable in water. Moderate mobility in soil. Sinks in water (after 24 h).

### 13. DISPOSAL CONSIDERATIONS

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

### 14. TRANSPORT INFORMATION

DOT Classification Not regulated.

B/L Freight Classification Herbicides, NOIBN

Comments

International Transportation:

Environmentally Hazardous Substance, Solid, N.O.S. (Simazine), Class 9, UN3077, PGIII

### 15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard  
Fire Hazard

Section 313 Toxic Chemicals: Simazine (90.0%) (CAS No. 122-34-9)

California Proposition 65 Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

None

RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

### 16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1  
Flammability: 2  
Instability: 0

HMIS Hazard Ratings

Health: 1  
Flammability: 2  
Reactivity: 0

For non-emergency questions about this product call:

1-800-334-9481

0 Minimal  
1 Slight  
2 Moderate  
3 Serious  
4 Extreme

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Product Name: **Sentry Simazine 90 DF**

Original Issued Date: 11/25/1985  
Revision Date: 02/17/2005

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

RSVP# : SCP-955-603A-000360

End of MSDS