

Revision Date 22-Jun-2016

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

### GHS product identifier

Product Name Simazine 90DF

### Other means of identification

EPA Reg. No. 9779-295  
 Product ID/Unity Item No.: 10014721, 10020745  
 Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Agricultural Herbicide: See product label for complete list of uses and use 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
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### GHS Label elements, including precautionary statements

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**Emergency Overview**
**Signal Word****Warning****Hazard Statements**

- Harmful if inhaled

**Appearance** Off-white to tan.**Physical State** Solid (granule).**Odor** No distinct odor.**Precautionary Statements****Prevention**

- Avoid breathing dust, mist, vapors or spray.
- Use only outdoors or in a well-ventilated area.

**General Advice**

- None

**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**

- None

**Hazard Not Otherwise Classified (HNOC)**

Not applicable.

**Other information**

May be harmful if absorbed through skin. May cause slight eye irritation.  
 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.

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Chemical Name	CAS-No	Weight %	Trade secret
Simazine	122-34-9	90	*

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

## 4. FIRST AID MEASURES

### Description of necessary first-aid measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash skin with soap and water. Get medical attention if symptoms occur.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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** No information available.

### 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<sub>2</sub>), 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

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	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. Avoid dust formation. 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.

### 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.

### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

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**Methods for Cleaning Up** Prevent product from entering drains. 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 dust formation. Avoid contact with skin, eyes and clothing. Avoid breathing dust, 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 <sup>3</sup> inhalable fraction	-	-

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.  
**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.

**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

<b>Physical State</b>	Solid (granule).	<b>Appearance</b>	Off-white to tan.
<b>Odor</b>	No distinct odor.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	6.5 – 8.0	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
<b>upper flammability limit</b>	No data available	
<b>lower flammability limit</b>	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	Dispersible	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

**Flammable Properties** No data available.

**Explosive Properties** No data available

**Oxidizing Properties** No data available

### Other information

**VOC Content (%)** No data available

**Bulk Density** 24-27 lbs./cu. ft.

## 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.

### Conditions to avoid

Excessive heat. Do not store near heat or flames.

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**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<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Harmful if inhaled.
<b>Eye Contact</b>	May cause slight irritation.
<b>Skin Contact</b>	May be harmful if absorbed through skin.
<b>Ingestion</b>	Not expected to be toxic following ingestion.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Inhalation of product dust may cause mechanical irritation to the respiratory tract leading to coughing, wheezing, or difficulty in breathing.

**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** None of the ingredients are known to cause specific target organ effects through prolonged or repeated exposure.  
**Target Organ Effects** Respiratory system. Eyes. Skin.  
**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** > 2.23 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)

**Persistence and Degradability** No information available.

**Bioaccumulation**

Chemical Name	Log Pow
Simazine	2.18

**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

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**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	90	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

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

**U.S. EPA Label Information**

EPA Pesticide Registration Number 9779-295

**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. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing.

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard	2	Flammability	0	Instability	0	Physical and Chemical Hazards	-
<b><u>HMIS</u></b>	Health Hazard	2	Flammability	0	Physical Hazard	0	Personal Protection	X

Prepared By Product Stewardship  
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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**