



# Safety Data Sheet

In accordance with Safe Work Australia

## CHOICE SIMAZINE 900 WG HERBICIDE

### 1. Product identifier & identity for the chemical

Product Identifier	Choice Simazine 900 WG Herbicide
Active Constituent	900 g/kg SIMAZINE
Other means of Identification	Agricultural herbicide. GROUP C HERBICIDE Grow Choice product code number: 900 AVPMA registered number: 64378
Recommended use of the chemical and restrictions on due	Herbicide for the control of weeds in asparagus, berry fruits, citrus, almonds, gladioli, hops, apples and pears, roses, grapevines, lupins and non-crop situations. Refer to the product label for full use instructions.
Suppliers name, address and phone number:	Grow Choice Pty Ltd 113 Fitzroy Street   TAMWORTH NSW 2340 Phone: 02 6766 3979 1800 817 676 Fax: 02 6766 2922   Email: admin@growchoice.com.au
Emergency phone number:	In Case Of Emergency Dial 000
Poisons Information Centre	Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax: +61 2 9845 3597 <a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a>

### 2. Hazard Identification

- Classified as **HAZARDOUS** in accordance with the *Approved Criteria for Classifying Hazardous Substances* [NOHSC: 1008(2004) 3<sup>rd</sup> Edition and the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS).
- Considered hazardous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
- Considered **HAZARDOUS** for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)

#### 2.1 Classification of the hazardous chemical

Carcinogenicity -	Category 2
Hazardous to the aquatic environment (acute) -	Category 1
Hazardous to the aquatic environment (chronic) -	Category 1

#### 2.2 Label Elements

Signal Word Warning

GHS Symbols



Health Hazard

Environment

**General Precautionary Statements.** If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use

Hazard Statements	H351 Suspected of causing cancer.
	H410. Very toxic to aquatic life with long lasting effects

#### Precautionary Statements

Prevention	P201 Obtain special instructions before use
	P202 Do not handle until all safety precautions have been read and understood.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response	P308+P313 IF exposed or concerned: Get medical advice/attention.
	P391 Collect spillage.
Storage	P403 +P235 +P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
	P405 Store locked up
Disposal	P501: Dispose of contents and container in accordance with local, regional and national regulations.

**3. Composition/information on ingredients**

<b>Chemical ingredients:</b>	<b>Component</b>	<b>CAS No</b>	<b>Concentration %</b>
<b>CAS number and other unique identifiers:</b>	Simazine (ISO)	122-34-9	90%
<b>Concentration of ingredients:</b>	Other ingredients, including water	(non hazardous)	balance

**4. First Aid Measures**

**In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist. Take this SDS and or DFU/Label with you or when calling the Poisons Information Centre.**

**Description of necessary first aid measures**

Swallow	If swallowed and if more than 15 minutes from a hospital <b>DO NOT induce vomiting</b> . Seek immediate medical advice,
Eye:	If product gets in eyes, wash it out immediately with water for at least 15 minutes. . Seek medical attention.
Skin:	Remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled	Move affected person to fresh air and keep at rest until recovered. Seek medical advice if inhaled in large quantities or feel unwell.

**Symptoms caused by exposure**

Inhalation	May cause mild respiratory irritation.
Skin Contact	May cause mild skin irritation.
Eye Contact	May cause mild eye irritation.
Ingestion	May cause mild irritation to mucous membranes.

**Medical Attention and Special Treatment****5. Fire Fighting Measures**

<b>Suitable extinguishing media</b>	Use fire extinguishing methods suitable to surrounding conditions. Water fog or fine spray is the preferred medium for large fires.
<b>Specific hazards arising from the chemical</b>	Hazardous combustion products include oxides of carbon and nitrogen. Product is not combustible, but may form flammable or explosive dust clouds in air.
<b>Special protective equipment and precautions for fire fighters</b>	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.
<b>Hazchem Code</b>	2Z

**6. Accidental release measures**

<b>Personal precautions, protective equipment and emergency procedures</b>	In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove any sources of ignition. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material from entering drains or watercourses.
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities. Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (eg sand or soil). Shovel the absorbed spill into drums
<b>Methods and materials for containment and cleaning up</b>	Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. ). Clean contaminated floors and objects thoroughly, observing environmental regulations If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.
<b>6.4 Reference to other sections</b>	<b>Information regarding safe handling see section 7.</b> <b>Information regarding personal protective equipment see section 8.</b> <b>Information regarding waste disposal, see section 13.</b>

**7. Handling and Storage**

<b>Precautions for safe handling</b>	Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions. <b>Hygiene measures:</b> When using products, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly with soap and water after use and before eating, drinking, smoking/using tobacco, chewing gum, using the toilet or applying cosmetics. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Avoid contact with eyes and skin.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep out of reach of children, unauthorised persons and animals. Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food. Store out of direct sunlight and extreme temperature. Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

<b>Control parameters – exposure standards, biological monitoring</b>	No exposure standard allocated. No biological limits allocated.
<b>Appropriate engineering controls</b>	No special requirements. Product is used outdoors Control process conditions to avoid contact. Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below the exposure limits.
<b>Personal protective equipment (PPE):</b>	When opening the container, preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC chemical resistant and face shield or goggles.  When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and optional once chemical is prepared for use, elbow length PVC chemical resistant and face shield or goggles if protected from spray drift/contamination. <b>Face and Eye Protection:</b> Face shield or goggles. <b>Clothing:</b> Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat. <b>Gloves:</b> Elbow-length chemical resistant PVC gloves. <b>Respiratory:</b> If airborne concentrations are likely to exceed the exposure standards above or if exposed to dust, an AS/NZS 1715/1716 approved respirator should be worn.  Recommended to use Australian and New Zealand Standard PPE: Overalls AS 3765, Clothing for protection against Hazardous chemicals Gloves: AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical gloves) Goggles and face shield AS/NZS 1337, Eye protectors for industrial applications. Footwear AS/NZS 2210, Occupational protective footwear Respirators AS NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices AS/NZS 1716, Respiratory Protective Devices
<b>Requirements Concerning Training</b>	Check State and/or Territory regulations that require people who use pesticides in their job or business to have adequate training in the application of the materials.

## 9. Physical and chemical properties

### Appearance:

<b>Form:</b>	Granulate
<b>Colour:</b>	Off-white
<b>Odour:</b>	Mild, sweet
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/Melting range:</b>	225 - 227 °C (with decomposition)
<b>Initial Boiling Point/Boiling Range:</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature: Explosion Limits:</b>	No information available
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Negligible at normal ambient temperatures.
<b>Bulk Density:</b>	0.45 - 0.55
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Solubility in Water:</b>	Dispersible

## 10. Stability and Reactivity

<b>Thermal decomposition</b>	Stable under normal conditions
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours.
<b>Conditions to avoid</b>	Direct sunlight.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>10.6 Hazardous decomposition products</b>	Oxides of carbon and nitrogen

## 11. Toxicological information

### LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification: 122-34-9 Simazine (ISO)

Oral	LD <sub>50</sub>	>5000 mg/kg (mice) >5000 mg/kg (rat)
Dermal	LD <sub>50</sub>	3100 mg/kg (rat) >10000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	>2 mg/L (rat)

<b>Acute oral toxicity</b>	May cause mild irritation to mucous membranes.
<b>Acute inhalation toxicity</b>	May cause mild respiratory irritation.
<b>Acute dermal toxicity</b>	
<b>Skin irritation</b>	May cause mild skin irritation.
<b>Eye irritation</b>	May cause mild eye irritation.
<b>Chronic health effects</b>	Repeated and prolonged exposure may cause tremors, weakness, incoordination, weight loss and damage to the testes, kidneys, liver and thyroid.
<b>Assessment mutagenicity</b>	Based on classification principles, the classification criteria are not met.
<b>Assessment carcinogenicity</b>	Suspected of causing cancer. Simazine (ISO) is classified by Safe Work Australia as Carcinogen Category 3. Simazine is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.
<b>Assessment toxicity to reproduction</b>	Based on classification principles, the classification criteria are not met.
<b>Assessment developmental toxicity</b>	Based on classification principles, the classification criteria are not met.
<b>Assessment STOT Specific target organ toxicity – repeated and single exposure</b>	Based on classification principles, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on classification principles, the classification criteria are not met.
<b>Information on likely routes of exposure</b>	Harmful if inhaled. Harmful if swallowed. Harmful if absorbed through skin. Irritating to skin. Causes eye irritation.
<b>Data limitations</b>	The Australian Acceptable Daily Intake (ADI) for glufosinate-ammonium for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2.1mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', 30 June 2014).
<b>Further information</b>	No further toxicological information is available.

## 12. Ecological information

<b>Eco toxicity</b>	
Toxicity to fish:	Slightly toxic to fish. <i>Salmo trutta</i> (trout) LC50+>54 mg/L. 96 h
Toxicity to daphnia	Practically non-toxic to aquatic invertebrates
Other aquatic Invertebrates:	Daphnia magna (Water flea) EC50>14.8 mg/L, 48 h
Toxicity to algae	Very highly toxic to algae\ <i>Pseudokirchneriella subcapitata</i> (green algae) EbC50= 0.059 mg/L, 72 h
<b>Persistence and degradability</b>	Simazine is not persistent in soil or water.
<b>Bio accumulative potential</b>	Simazine has low potential for bioaccumulation
<b>Mobility in soil</b>	Simazine has low mobility in soil.

## 13. Disposal considerations

<b>Disposal of product</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
<b>Disposal of Container</b>	Do not use this container for any other purpose. Triple rinse containers; add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non-returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## 14. Transport information (continued on page 5)

<b>General Transport Information</b>	It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.
<b>Land</b>	Considered <b>non-dangerous</b> for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
<b>Sea and Air</b>	Considered <b>DANGEROUS</b> for transport by sea and air in accordance with the IMDG Code 37-14
<b>IMDG and IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (simazine (ISO)), MARINE POLLUTANT Class: 9 Miscellaneous dangerous substances and articles. Packing Group: III Marine pollutant: Yes Symbol (fish and tree)

EMS Number: F-A,S-F  
 Hazchem Code: 2Z  
 Special Provisions: 179, 274, 331, 335, AU01  
 Limited Quantities: 5 kg  
 Packagings & IBCs - Packing Instruction: P002, IBC08, LP02  
 Packagings & IBCs - Special Packing Provisions: PP12, B3  
 Portable Tanks & Bulk Containers - Instructions: T1, BK2  
 Portable Tanks & Bulk Containers – Special Provisions: TP33

### 15. Regulatory information

Poisons Schedule number	Not scheduled.
Safety, health and environmental regulations specific for the product in question	

### 16. Other information

Date of Review

This Safety Data Sheet (SDS) was reviewed 23 January 2017 and replaces the Material Data Safety Sheet dated 17/07/15 and any prior dated MSDS/SDS.

#### Acronyms:

AVPMA: Australian Pesticides and Veterinary Medicines Authority.  
 GHS: Globally Harmonised system of Classification and Labelling of chemicals  
 HSIS: Hazardous Substances Information System  
 NOHSC: National Occupational Health and Safety Commission  
 CAS No.: unique numerical identifier assigned by Chemical Abstracts Service (division of the American Chemical Society)  
 STEL: Exposure standard - short term exposure limit.  
 AS/NZS: Australian Standards and New Zealand Standards for Personal protective equipment  
 ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals  
 ADG: Australian Dangerous Goods  
 IMDG: International Maritime Code of Dangerous Goods  
 IATA: International Air Transport Association

End of SDS

#### DISCLAIMER:

This SAFETY DATA SHEET has been developed according to the Work Health and Safety Regulations (WHS Regulations) Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals December 2011. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this SAFETY DATA SHEET is to describe product in terms of their safety requirements. Grow Choice Pty Ltd makes no representation of merchantability, fitness for a particular purpose of application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product. The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with Relevant Federal, State and Local Government regulations.