

# Material Safety Data Sheet

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Product Name : **Simagranz Herbicide**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	Simagranz Herbicide
<b>Product Code</b>	0750
<b>Product Type</b>	Group C Herbicide
<b>Company Name</b>	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
<b>Address</b>	Unit 15/16 Metroplex Avenue Murarrie Queensland 4172 Australia
<b>Emergency Tel.</b>	1800 033 498
<b>Telephone/Fax Number</b>	Tel: (07) 3909 2000 Fax: (07) 3909 2010
<b>Recommended Use</b>	For the control of weeds in a range of horticultural and broadacre crops, forestry and in non-crop situations as per the Directions for Use table on the label.
<b>Other Information</b>	This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
<b>Risk Phrase(s)</b>	R40(3) Possible risk of irreversible effects.
<b>Safety Phrase(s)</b>	S36/37 Wear suitable protective clothing and gloves.
<b>Other Information</b>	Poisons Schedule - Not Scheduled

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Simazine	122-34-9	900 g/kg
	Talc	14807-96-6	<50 g/kg
	Dispersants	N/A	Balance

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove affected person to fresh air until recovered.
<b>Ingestion</b>	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
<b>Skin</b>	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.
<b>Eye</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water, foam, carbon dioxide or dry chemical.
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<b>Hazards from Combustion Products</b>	Non-flammable. If involved in a fire, it will emit oxides of nitrogen, oxides of carbon and possibly hydrogen chloride.
<b>Speical Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
<b>Hazchem Code</b>	None Allocated
<b>Other Information</b>	Prevent fire water from entering drains or water bodies.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Spills &amp; Disposal</b>	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Contaminated earth (after a spill) can be treated with lime to hasten decomposition of the active ingredient.

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## 7. HANDLING AND STORAGE

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<b>Precautions for Safe Handling</b>	For personal protective equipment (PPE) and hygiene advice, refer Section 8. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
<b>Conditions for Safe Storage</b>	Store in the closed, original container in a dry, well ventilated area, as cool as possible.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>National Exposure Standards</b>	No exposure standard for this product has been set, however, an exposure standard has been set for Talc (inspirable dust) at 2.5 mg/m <sup>3</sup> .
<b>Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Respiratory Protection</b>	If dusts are present, wear a class P1 dust mask.
<b>Personal Protective Equipment</b>	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. Re-entry period: Do not enter treated area until spray has dried.
<b>Hygiene Measures</b>	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Form</b>	Solid
<b>Appearance</b>	Light tan granular powder
<b>Odour</b>	Odourless
<b>Melting Point</b>	225 - 227°C for simazine technical
<b>Solubility in Water</b>	Solubility of simazine technical is 0.062 g/L @ 25°C
<b>Vapour Pressure</b>	<0.001kPa for simazine technical
<b>Octanol/Water Partition Coefficient</b>	LogP 2.1 (25°C) for simazine technical
<b>Flammability</b>	Combustible Danger of dust explosion.

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Subject to hydrolysis and sublimation at high temperatures.
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**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Inhalation of dust may result in respiratory irritation.
<b>Ingestion</b>	The concentrate is of low toxicity if swallowed.
<b>Skin</b>	Not a likely route of exposure due to the physical nature of the product.
<b>Eye</b>	May irritate the eyes.
<b>Carcinogenicity</b>	Worksafe Australia has classified simazine in the occupational environment as a Carcinogen Category 3 substance. This means that the substance is not classifiable as to carcinogenicity to humans. Simazine has been assessed in animals and some data exists that simazine is a substance which causes some concern for humans owing to possible carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment.
<b>Acute Toxicity - Oral</b>	LD50 (rat) >5,000 mg/kg for simazine
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.5 mg/l for simazine
<b>Eye Irritation</b>	Not an eye irritant.
<b>Skin Irritation</b>	Not a skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for simazine for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 mg/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, 'ADI List', TGA, September 2005).

## 12. ECOLOGICAL INFORMATION

<b>Persistence / Degradability</b>	Half life in soil is typically 70 - 110 days.
<b>Environ. Protection</b>	Spray drift should be avoided, read the label for more information.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, simazine. Not toxic to fish. LC50 (96 hr) for rainbow trout is >100 mg/l.
<b>Acute Toxicity - Daphnia</b>	LC50 (48 hr) for daphnia is >100 mg/l for simazine.
<b>Acute Toxicity - Other Organisms</b>	The following data is for the active ingredient, simazine. Birds: Not toxic to birds. LD50 for mallard duck is >2,000 mg/kg Bees: Not toxic to bees. LD50 >99 µg/bee.

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</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 (ChemCollect).
<b>Container Disposal</b>	Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in 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

<b>U.N. Number</b>	None Allocated
<b>DG Class</b>	None Allocated
<b>Hazchem Code</b>	None Allocated
<b>Packing Group</b>	None Allocated

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**Storage and Transport**      Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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## 15. REGULATORY INFORMATION

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**Poisons Schedule**      Not Scheduled

**Packaging & Labelling**      Not to be used for any purpose or in any manner contrary to the label unless authorised under appropriate legislation.  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Hazard Category**      Harmful

**AICS (Australia)**      All of the components in this product are listed on the Australian Inventory of Chemical Substances.

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## 16. OTHER INFORMATION

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**Contact Person/Point**      Normal Hours: Mr Volker Maier      Phone: (03) 9282 1000  
After Hours: Shift Supervisor      Phone: 1800 033 498

**Revisions Highlighted**      The MSDS was reviewed. Minor changes were made to the information.

...End Of MSDS...