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| Infosafe No™ 3NV0E | Issue Date : July 2017 | ISSUED by NUFARM |
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 Product Name **Simagranz Herbicide**

Classified as hazardous

## 1. Identification

|  |   |
|--|---|
| <b>GHS Product Identifier</b>                                  | Simagranz Herbicide   |
| <b>Product Code</b>  | 0750  |
| <b>Product Type</b>  | Group C Herbicide   |
| <b>Company Name</b>  | NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  |
| <b>Address</b>   | 103-105 Pipe Road Laverton North<br>Victoria 3026 Australia   |
| <b>Telephone/Fax Number</b>                                    | Tel: +61 3 9282-1000<br>Fax: +61 3 9282-1001  |
| <b>Emergency phone number</b>                                  | 1800 033 498 (24hr Australia)   |
| <b>Recommended use of the chemical and restrictions on 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 Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application. |

## 2. Hazard Identification

|   |   |
|---|---|
| <b>GHS classification of the substance/mixture</b>                                  | CA2 Carcinogenicity: Category 2   |
| <b>Signal Word (s)</b>  | WARNING   |
| <b>Hazard Statement (s)</b>   | H351 Suspected of causing cancer.   |
| <b>General Precautionary Statement (s)</b>  | P101 If medical advice is needed, have product container or label at hand.<br>P102 Keep out of reach of children.<br>P103 Read label before use.  |
| <b>Pictogram (s)</b>  | Health hazard,<br>The below pictogram is a GHS Hazard symbol for workplace use only.<br>See SECTION 14 for Dangerous Goods information.   |
|  |   |
| <b>Precautionary statement – Prevention</b>   | P202 Do not handle until all safety precautions have been read and understood.<br>P280 Wear protective gloves, clothing, eye and face protection.<br>P264 Wash hands and exposed skin thoroughly after handling.  |
| <b>Precautionary statement – Response</b>   | P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice/attention.<br>P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P332+P313 If skin irritation occurs: Get medical advice/attention.<br>P362 Take off contaminated clothing and wash before reuse. |
| <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           |

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## 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.<br>Wash affected areas thoroughly with soap and water.  |
| <b>Eye contact</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 the Poisons Information Centre (Australia) on 13 11 26.  |
| <b>Advice to Doctor</b>     | Treat symptomatically.  |

## 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable extinguishing media</b>                   | Water, foam, carbon dioxide or dry chemical.   |
| <b>Hazards from Combustion Products</b>               | Non-flammable.<br>If involved in a fire, it will emit oxides of nitrogen, oxides of carbon and possibly hydrogen chloride. |
| <b>Special 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>Other Information</b>                              | STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.  |

## 6. Accidental release measures

|                                  |  |
|----------------------------------|--|
| <b>Spills &amp; Disposal</b>     | Recover the product by sweeping up or vacuuming without raising dust.<br>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.<br>Contaminated earth (after a spill) can be treated with lime to hasten decomposition of the active ingredient. |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for Safe Handling</b>                                | For personal protective equipment (PPE) and hygiene advice, refer Section 8.<br>If dusts are generated, it is advisable to wear a dust mask, refer Section 8. |
| <b>Conditions for safe storage, including any incompatibilities</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.  |

## 8. Exposure controls/personal protection

|   |   |
|---|---|
| <b>Occupational exposure limit values</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>Appropriate 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).<br>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.<br>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.   |

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| <b>Requirements Concerning Special Training</b> | After each day's use, wash contaminated clothing and safety equipment. Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials. |
|---|---|

## 9. Physical and chemical properties

|   |  |
|---|--|
| <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>                        | 0.00081 mPa for simazine technical                   |
| <b>Partition Coefficient: n-octanol/water</b> | LogP 2.3 (25°C) for simazine technical               |
| <b>Flammability</b>                           | Combustible<br>Danger of dust explosion.             |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Chemical Stability</b>                 | Subject to hydrolysis and sublimation at high temperatures.   |
| <b>Possibility of hazardous reactions</b> | This product contains a high proportion of an organic solid. Large accumulations of dust and fines associated with industrial processing of bulk material may be a dust explosion hazard. |
| <b>Hazardous Polymerization</b>           | Hazardous polymerisation is not possible.   |

## 11. Toxicological Information

|                                    |   |
|------------------------------------|---|
| <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>Ingestion</b>                   | The concentrate is of low toxicity if swallowed.  |
| <b>Inhalation</b>                  | Inhalation of dust may result in respiratory irritation.  |
| <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>             | Suspected human carcinogen based on limited evidence from studies on humans or laboratory animals.  |
| <b>Skin corrosion/irritation</b>   | May cause irritation.   |
| <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: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', March 2016). |

## 12. Ecological information

|                                      |  |
|--------------------------------------|--|
| <b>Persistence and degradability</b> | Half life in soil is typically 60 days.<br>(Range 27 - 102 days)   |
| <b>Environmental 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.<br>Not toxic to fish. LC50 (96 hr) for bluegill sunfish is 90 mg/l. |
| <b>Acute Toxicity - Daphnia</b>      | LC50 (48hr) for daphnia is 1.1 mg/l for simazine.  |
| <b>Acute Toxicity - Algae</b>        | EC50 (72hr) for Scenedesmus subspicatus is 0.04 mg/l.  |

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**Acute Toxicity - Other Organisms** 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 97 µg/bee.

### 13. Disposal considerations

**Product Disposal** 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®).

**Container Disposal** Shake bag contents into spray tank until the bag is empty. 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

**Storage and Transport** Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

**UN Number (Sea Transport)** 3077

**IMO Class/Packing Group** Class 9

**IMO Marine Pollutant** Marine Pollutant

**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Simazine)

### 15. Regulatory information

**Regulatory Information** Australia: WHS regulations (2011) - Schedule 11: classification not listed.

**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

**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 49965.

### 16. Other Information

**Date of preparation or last revision of SDS** 12/07/2017

**Contact Person/Point** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
 After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** The SDS was reviewed. Minor changes were made to the information and product has been rebranded.  
 ...End Of MSDS...

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