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| Infosafe No™ 3NU2A | Issue Date : November 2015 | ISSUED by CRPCARE |
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Product Name **IGRAN 500 Flowable Liquid Herbicide**

Classified as hazardous

## 1. Identification

|  |   |
|--|---|
| <b>GHS Product Identifier</b>                                  | IGRAN 500 Flowable Liquid Herbicide   |
| <b>Product Code</b>  | 0784  |
| <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 17/16 Metroplex Avenue Murarrie<br>Queensland 4172 Australia   |
| <b>Telephone/Fax Number</b>                                    | Tel: +61 7 3909 2000<br>Fax: +61 7 3909 2010  |
| <b>Emergency phone number</b>                                  | 1800 033 498 (24hr Australia)   |
| <b>Recommended use of the chemical and restrictions on use</b> | Controls certain early competing broadleaf weeds in wheat, barley, triticale, pastures (including plantain pastures) and some varieties of oats and field peas as shown in 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

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|--|--|
| <b>GHS classification of the substance/mixture</b> | ED1 Eye Damage/Irritation: Category 1  |
| <b>Signal Word (s)</b>                             | DANGER   |
| <b>Hazard Statement (s)</b>                        | H318 Causes serious eye damage.  |
| <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>                               | Corrosion  |



|   |   |
|---|---|
| <b>Precautionary statement – Prevention</b> | P280 Wear protective gloves, clothing, eye and face protection.   |
| <b>Precautionary statement – Response</b>   | 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>P310 Immediately call a POISON CENTER or doctor/physician. |
| <b>Other Information</b>                    | Poisons Schedule S5   |

## 3. Composition/information on ingredients

|                                  |                          |            |                   |
|----------------------------------|--------------------------|------------|-------------------|
| <b>Chemical Characterization</b> | Liquid                   |            |                   |
| <b>Ingredients</b>               | <u>Name</u>              | <u>CAS</u> | <u>Proportion</u> |
|                                  | Terbutryn                | 886-50-0   | 500 g/L           |
|                                  | Glycerine                | 56-81-5    | 0-10 %            |
|                                  | Propylene glycol         | 57-55-6    | 0-10 %            |
|                                  | Anionic Surfactant       |            | 0-10 %            |
|                                  | Non hazardous components |            | 0-10 %            |
|                                  | Water                    |            | 30-60 %           |

## 4. First-aid measures



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| <b>Inhalation</b>       | Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.   |
| <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>             | Wash affected areas thoroughly with soap and water.<br>Remove contaminated clothing and launder before re-use.  |
| <b>Eye contact</b>      | If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.   |
| <b>Advice to Doctor</b> | Treat symptomatically.  |

## 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable extinguishing media</b>                   | If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.   |
| <b>Hazards from Combustion Products</b>               | If involved in a fire, the dehydrated components may emit nitrogen oxides, carbon oxides and sulphur oxides. |
| <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>     | Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).<br>Collect spilled material and waste in sealable open-top type containers for disposal.<br>On-site disposal of concentrate is not acceptable. |
| <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.   |

## 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.   |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in the closed, original container in a cool, well ventilated area.<br>Do not store for prolonged periods in direct sunlight.<br>Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. |
| <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> | Safe Work Australia has set the following exposure standard for glycerine : TLV (TWA) 10 mg/m <sup>3</sup> , STEL -.<br>Safe Work Australia has set the following exposure standard for propylene glycol : TLV (TWA) 474 mg/m <sup>3</sup> , STEL -.   |
| <b>Appropriate engineering controls</b>   | Handle in well ventilated areas, generally natural ventilation is adequate.  |
| <b>Respiratory Protection</b>             | Do not inhale spray mist.  |
| <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 impervious gloves and face shield or 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.<br>After each day's use, wash contaminated clothing and safety equipment.  |

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**Requirements Concerning Special Training** 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>                                   | Liquid                         |
| <b>Appearance</b>                             | Opaque yellow liquid           |
| <b>Solubility in Water</b>                    | Disperses in water.            |
| <b>Specific Gravity</b>                       | 1.06                           |
| <b>Vapour Pressure</b>                        | 0.225 mPa @ 25°C for terbutryn |
| <b>Volatile Component</b>                     | 37%                            |
| <b>Partition Coefficient: n-octanol/water</b> | Kow Log P is 3.65              |
| <b>Flammability</b>                           | Non flammable liquid           |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Possibility of hazardous reactions</b> | Keep away from strong oxidising agents.   |
| <b>Hazardous Polymerization</b>           | Hazardous polymerisation is not possible. |

## 11. Toxicological Information

|                                      |  |
|--------------------------------------|--|
| <b>Toxicology Information</b>        | No harmful effects are expected if the precautions on the label and this MSDS are followed.  |
| <b>Acute Toxicity - Oral</b>         | LD50 (rat) >3000 mg/kg for a similar product<br>LD50 (rat) 2500 mg/kg for terbutryn  |
| <b>Acute Toxicity - Dermal</b>       | LD50 (rat) >2000 mg/kg for terbutryn   |
| <b>Acute Toxicity - Inhalation</b>   | LC50 (rat) (4hr) >2.2 mg/l for terbutryn   |
| <b>Ingestion</b>                     | The concentrate is of low toxicity if swallowed.   |
| <b>Inhalation</b>                    | The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.<br>However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.  |
| <b>Skin</b>                          | Acute dermal toxicity has not been determined for this product; based on data available for its components, dermal toxicity is expected to be low.   |
| <b>Eye</b>                           | May cause severe eye irritation.   |
| <b>Skin Sensitisation</b>            | Product is not a skin sensitiser.  |
| <b>Carcinogenicity</b>               | The weight of the evidence is that terbutryn is not carcinogenic.  |
| <b>Chronic Effects</b>               | Repeated exposure may cause allergic disorders.  |
| <b>Serious eye damage/irritation</b> | This product is a severe eye irritant.   |
| <b>Mutagenicity</b>                  | The weight of evidence indicates that terbutryn does not present a mutagenic risk.   |
| <b>Skin corrosion/irritation</b>     | Not a skin irritant.   |
| <b>Other Information</b>             | The Australian Acceptable Daily Intake (ADI) for terbutryn for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 10 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, Office of Chemical Safety, 'ADI List', March 2014). |

## 12. Ecological information

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| <b>Persistence and degradability</b>            | Average field half life of terbutryn is 14 - 50 days.   |
| <b>Known Harmful Effects on the Environment</b> | Terbutryn products do not appear to pose any threat to birds.   |
| <b>Other Precautions</b>                        | Do not contaminate dams, waterways or sewers with this product.   |
| <b>Environmental Protection</b>                 | Spray drift can cause damage, read the label for more information.  |
| <b>Acute Toxicity - Fish</b>                    | The following is data for the active ingredient, terbutryn.<br>Not toxic to fish. LC50 (96 hr) for rainbow trout is 1.14 mg/l.  |
| <b>Acute Toxicity - Daphnia</b>                 | LC50 (48hr) for daphnia is 2.66 mg/l for terbutryn.   |
| <b>Acute Toxicity - Algae</b>                   | EC50 (72hr) for Pseudokirchneriella subcapitata 0.0024 mg/l for terbutryn.  |
| <b>Acute Toxicity - Other Organisms</b>         | The following data is for the active ingredient, terbutryn.<br>Birds: Not toxic to birds. LD50 for bobwhite quail is 5000 mg/kg<br>Bees: Not toxic to bees. LD50 >100 µg/bee. |

### 13. Disposal considerations

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|---------------------------|--|
| <b>Product Disposal</b>   | On site disposal of the concentrated product is not acceptable.<br>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>Container Disposal</b> | Do not use this container for any other purpose.<br>Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.<br>If recycling, replace cap and return clean containers to recycler or designated collection point.<br>If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.<br>If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.<br>Empty containers and product should not be burnt.<br>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. |

### 14. Transport information

|                                  |   |
|----------------------------------|---|
| <b>Storage and Transport</b>     | 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. |
| <b>UN Number (Sea Transport)</b> | For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.<br>3082  |
| <b>IMO Class/Packing Group</b>   | Class 9   |
| <b>IMO Marine Pollutant</b>      | Marine Pollutant  |
| <b>IMO Proper Shipping Name</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(contains Terbutryn)   |

### 15. Regulatory information

|                                  |  |
|----------------------------------|--|
| <b>Poisons Schedule</b>          | S5   |
| <b>Packaging &amp; Labelling</b> | CAUTION<br>KEEP OUT OF REACH OF CHILDREN<br>READ SAFETY DIRECTIONS BEFORE OPENING OR USING |



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**Other Information**      This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 58673.

## 16. Other Information

**Date of preparation**      Revised 10/11/2015.  
**or last revision of SDS**      This SDS replaces document dated September 2014.  
**Contact**      Normal Hours: Mrs Kathleen Marsh      Phone: +61 3 9282 1000  
**Person/Point**      After Hours: Shift Supervisor      Phone: 1800 033 498  
**Revisions**      The SDS was reviewed. Minor changes were made to the information.  
**Highlighted**      See container disposal in section 13 for updated instructions.  
**Other Information**      © Registered Trademark of Syngenta Participations AG  
    ...End Of MSDS...

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