



# Safety Data Sheet

In accordance with Safe Work Australia


## GLYMAX 700Herbicide

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

|   |  |
|---|--|
| Product Identifier                                      | <b>Glymax 700 Herbicide</b>  |
| Active Constituent                                      | <b>700 g/kg GLYPHOSATE (present as the mono-ammonium salt)</b>   |
| Other means of Identification                           | Agricultural herbicide. GROUP M HERBICIDE<br>Grow Choice product code number: 452 15<br>AVPMA registered number: 65523   |
| Recommended use of the chemical and restrictions on due | <b>A non-selective herbicide for the control of many annual and perennial in certain situations as indicated in the Directions for Use.</b>  |
| Suppliers name, address and phone number:               | Grow Choice Pty Ltd<br>113 Fitzroy Street   TAMWORTH NSW 2340<br>Phone: 02 6766 3979 1800 817 676<br>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<br><a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a> |

### 2. Hazard Identification

- Considered as **non-hazardous** in accordance with the criteria for Safe Work Australia.
- Considered **HAZARDOUS** under the Globally Harmonised System (GHS).
- Considered **non-dangerous** for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
- Considered **non-dangerous** for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)

|                                   |  |  |
|-----------------------------------|--|--|
| GHS Classification                | Hazardous to the aquatic environment (chronic) - category 2  |  |
| Label Elements                    |  |  |
| Signal Word                       | No signal word   |  |
| GHS Symbols                       | <br>Environmental                             |  |
| General Precautionary Statements. | If medical advice is needed, have product container or label at hand.<br>Keep out of reach of children.<br>Read label before use |  |
| Hazard Statement                  | H411   | Toxic to aquatic life with long lasting effects  |
| Precautionary Statements          |  |  |
| Prevention                        | P273   | Avoid release to the environment   |
| Response                          | P391   | Collect spillage   |
| Disposal                          | P501:  | Dispose of contents and container in accordance with local, regional and national regulations. |

### 3. Composition/information on ingredients

| Chemical ingredients:<br>CAS number and other<br>unique identifiers:<br>Concentration of<br>ingredients: | Component                                      | CAS No.         | Concentration<br>% |
|--|--|-----------------|--------------------|
|  | Glyphosate (present as the Mono-ammonium salt) | 114370-14-8     | 70.0 % w/w         |
|  | Surfactant                                     | (non-hazardous) | 10-20 %w/w         |
|  | Other ingredients, including water             | (non hazardous) | To 100 % w/w       |

### 4. First Aid Measures (continued on page 2)

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 **DO NOT induce vomiting**. Seek immediate medical advice. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Do not give anything by mouth to a semiconscious or unconscious person. Rinse mouth thoroughly with water.
- Eye: If product gets in eyes, hold eyelids open and 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. If irritation persists, seek medical advice. Wash clothing before reuse. |
| 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

|           |  |
|-----------|--|
| Swallowed | The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Ingestion of this product may cause gastrointestinal discomfort, nausea, diarrhoea and vomiting. |
| Skin      | Will cause irritation  |
| Inhaled:  | May cause irritation to mucous membranes and respiratory tract. Avoid breathing in spray mists when applying the product as a spray.   |
| Eye       | Will cause irritation and possible damage unless washed off immediately.   |
| Chronic   | No information available, no chronic effects expected.   |

### Medical Attention and Special Treatment

Can cause corneal burns. This product is not an inhibitor of cholinesterase. Treatment with atropine and oximes is not indicated.

## 5. Fire Fighting Measures

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|---|---|
| <b>Suitable extinguishing media</b>                                   | Water, foam, carbon dioxide or dry chemical.  |
| <b>Specific hazards arising from the chemical</b>                     | In a fire, irritant and toxic fumes containing oxides of carbon, nitrogen, phosphorus and sulphur, and other toxic substances may be generated.   |
| <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>   |   |

## 6. Accidental release measures

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| <b>Personal precautions, protective equipment and emergency procedures</b> | In case of spillage it is important to take all steps necessary to:<br>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.<br>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><br><b>Information regarding personal protective equipment see section 8.</b><br><b>Information regarding waste disposal, see section 13.</b>   |

## 7. Handling and Storage

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

## 8. Exposure controls/personal protection (continued on page 3)

|   |   |
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| <b>Control parameters – exposure standards, biological monitoring</b> | No exposure limits have been assigned by Safe Work Australia for the ingredients within this product. |
| <b>Appropriate</b>  | No special requirements. Product is used outdoors   |

|   |   |          |  |         |   |                         |  |          |   |             |   |
|---|---|----------|--|---------|---|-------------------------|--|----------|---|-------------|---|
| <b>engineering controls</b>                 | Control process conditions to avoid contact. Use only in well-ventilated areas.   |          |  |         |   |                         |  |          |   |             |   |
| <b>Personal protective equipment (PPE):</b> | <p>When opening the container/package, 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.</p> <p>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.</p> <p><b>Face and Eye Protection:</b> Face shield or goggles.</p> <p><b>Clothing:</b> Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat.</p> <p><b>Gloves:</b> Elbow-length chemical resistant PVC gloves.</p> <p><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.</p> <p>Recommended to use Australian and New Zealand Standard PPE:</p> <table> <tr> <td>Overalls</td><td>AS 3765, Clothing for protection against Hazardous chemicals</td></tr> <tr> <td>Gloves:</td><td>AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical gloves)</td></tr> <tr> <td>Goggles and face shield</td><td>AS/NZS 1337, Eye protectors for industrial applications.</td></tr> <tr> <td>Footwear</td><td>AS/NZS 2210, Occupational protective footwear</td></tr> <tr> <td>Respirators</td><td>AS NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices<br/>AS/NZS 1716, Respiratory Protective Devices</td></tr> </table> | 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<br>AS/NZS 1716, Respiratory Protective Devices |
| 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<br>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

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|-----------------------------|--|
|                             | Glyphosate, monoammonium salt is a Glyphosate compound |
| <b>Appearance</b>           | .White-yellowish granule                               |
| <b>Odour</b>                | Musty odour.   |
| <b>pH (1% deion. Water)</b> | 4 - 7  |
| <b>Boiling point</b>        | No data available                                      |
| <b>Flash point</b>          | No data available                                      |
| <b>Fire Point &gt;960C</b>  | No data available                                      |
| <b>Solubility in water</b>  | Soluble  |
| <b>Specific gravity</b>     | No data available                                      |
| <b>Viscosity</b>            | No data available                                      |
| <b>Bulk density</b>         | No data available                                      |

## 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>    | No hazardous reactions when stored and handled according to prescribed instructions.  |
| <b>Conditions to avoid</b>                   | Direct sunlight – do not store for prolonged periods outside in direct sunlight.  |
| <b>Incompatible materials</b>                | Strong oxidizing agents, Acids, Bases, Alkali metals  |
| <b>10.6 Hazardous decomposition products</b> | Thermal decomposition can lead to release of: Ammonia Oxides of carbon Nitrogen oxides (NOx)<br>Oxides of phosphorus Sulphur oxides |

## 11. Toxicological information

The product has no specific data to date when this SDS has been compiled as there have been known toxicity tests undertaken. The information is based on similar products and/or individual components. Caution must be exercised with products with limited data with proper use of protective equipment and wear as well as correct handling procedures.

### Acute Effects

|                            |  |
|----------------------------|--|
| <b>Swallowed</b>           | Low acute toxicity. Direct ingestion may produce gastro-intestinal discomfort, nausea, vomiting and diarrhea. Larger quantities may result in hypotension and pulmonary oedema. Acute Oral LD50 > 5000 mg/kg.  |
| <b>Inhaled</b>             | May produce respiratory irritation if mists and sprays are inhaled.  |
| <b>Skin</b>                | May be irritating to skin. Acute dermal LD50 > 5000 mg/kg.   |
| <b>Eye</b>                 | The product as granules may cause irritation to the eyes. Prolonged contact with the spray solution may cause damage to the eye.   |
| <b>Toxicology Data:</b>    | Rats acute oral LD50 = 2814 mg/kg for a similar formulation<br>Rabbits acute dermal LD50 > 5000 mg/kg for a similar formulation.   |
| <b>Chronic toxicity:</b>   | Studies of glyphosate lasting up to 2 years have been conducted with rats, dogs, mice and rabbits, and with few exceptions no effects were observed.<br>For example, in a chronic feeding study with rats, no toxic effects were observed in rats given doses as high as 400 mg/kg/day. Also no toxic effects were observed in a chronic feeding study with dogs fed up to 500 mg/kg/day, the highest dose tested.     |
| <b>Data limitations</b>    | The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30mg/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****Toxicity**

|  |  |
|--|--|
| Known Harmful Effects on the Environment | Harmful to fish and other aquatic organisms.<br>Do no spray in high winds. Do not contaminate dams, waterways or sewers with this product.   |
| Other Precautions                        | Glyphosate is a non-selective contact herbicide, spray drift can cause damage.   |
| Environment Protection                   | Studies indicate that glyphosate has very low mobility.  |
| Persistence/Degradability                | Average field half-life of glyphosate is 47 days.  |
| Absorption                               | Fish The following is data for a similar product.  |
| Acute Toxicity                           | LC50 (96 hr) for bluegill sunfish is 5.8 – 14 mg/l.<br>LC50 (96 hr) for rainbow trout is 8.2 – 26 mg/l<br>LC50 (96 hr) for fathead minnow is 9.4 mg/l<br>TL50 (96 hr) for carp is 19.7 ppm |
|  | The following data is for the active ingredient, glyphosate<br>Organisms Birds: Not toxic to birds. LD50 for bobwhite quail is >3850 mg/kg<br>Bees: Not toxic to bees. LD50 >100 µg/bee.   |

**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**

|                                      |   |
|--------------------------------------|---|
| <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>non-dangerous</b> for transport by sea and air in accordance with the IMDG Code 37-14 and the International Air Transport Association (IATA). |

**15. Regulatory information**

|   |   |
|---|---|
| Poisons Schedule number   | Schedule <b>S5</b>  |
| Safety, health and environmental regulations specific for the product in question | Australian Pesticides and Veterinary Medicines Authority approval number: 65523 |

**16. Other information**

|                                   |   |
|-----------------------------------|---|
| Date of Review                    | This Safety Data Sheet (SDS) was reviewed 24 January 2017 and replaces the Material Data Safety Sheet dated 16/12/11 and any prior dated MSDS/SDS.  |
| GHS Classification/Search results | glyphosate, salts of (with the exception of those specified elsewhere in this database) (no CAS number)<br>Hazardous to the aquatic environment (chronic) - category 2<br>GHS09: H411 Toxic to aquatic life with long lasting effects |

**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.