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TRYON 750 SELECTIVE HERBICIDE

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Identifier	Tryon 750 Selective Herbicide
Active Constituent	750g/L Triasulfuron
Other means of Identification	Selective Herbicide GROUP B HERBICIDE Grow Choice product code number: 750 1 AVPMA registered number: 55374
Recommended use of the chemical and restrictions on due	For pre-plant control of annual ryegrass, paradoxa grass and certain broadleaf weeds in Wheat and for post-emergent control of wild radish in Wheat, Oats and Barley as per Directions for Use.
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 http://www.chw.edu.au/poisons/contact.htm

SECTION 2: HAZARDS IDENTIFICATION

- Classified as **NON HAZARDOUS** in accordance with the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004) 3rd Edition and the Globally Harmonized System of Classification and Labelling of Chemicals (the 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 **DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)

Classification of hazardous chemical

Hazardous to the aquatic environment (acute)	Category 1
Hazardous to the aquatic environment (chronic)	Category 1

2.2 Label Elements

Signal Word
 GHS Symbols

WARNING



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

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P273 Avoid release to the environment.

Response

P391 Collect spillage.

Storage

P403+P235+P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal

P405 Store locked up

P501 Dispose of contents and container in accordance with local, regional and national regulations.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical ingredients:	Component	CAS No	Concentration %
CAS number and other unique identifiers:	Triasulfuron	82097-50-5	75%
Concentration of ingredients:	Other ingredients, including water	(non-hazardous)	balance

SECTION 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 DO NOT induce vomiting. 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 urgent medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Not combustible. Use extinguishing media suited to burning materials. Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire.

Flash point: Combustible solid.

Upper Flammability Limit: No data.

Lower Flammability Limit: No data.

Auto ignition temperature: No data.

Flammability Class: Combustible solid.

Special protective equipment and precautions for fire fighters:

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued on page 3)

Personal precautions, protective equipment and emergency procedures:

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.

Environmental precautions:

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.

Methods and materials for containment and cleaning up:

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.

6.4 Reference to other sections:

Information regarding safe handling see section 7.

Information regarding personal protective equipment see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

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.

Hygiene measures:

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.

Conditions for safe storage, including any incompatibilities:

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.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued on page 4)

Appropriate engineering controls:

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.

Personal protective equipment (PPE):

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.

Face and Eye Protection: Face shield or goggles.

Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat.

Gloves: Elbow-length chemical resistant PVC gloves.

Respiratory: 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.

Requirements Concerning Training:

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Description & colour:	Off-white granules
Odour:	No odour.
Boiling Point:	Not available.
Freezing/Melting Point:	No specific data. Solid at normal temperatures.
Volatiles:	No data.
Vapour Pressure:	Negligible.
Vapour Density:	Not applicable.
Specific Gravity:	0.5-0.6 at 20°C (bulk density)
Water Solubility:	Dispersible.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	Not applicable.
Coeff Oil/water distribution:	No data
Viscosity:	Not applicable.
Autoignition temp:	No data.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid:

Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities:

Strong oxidising agents.

Fire Decomposition:

Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke.

Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulphur (sulfuric dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour. May form hydrogen chloride gas, other compounds of chlorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation:

Polymerisation reactions are unlikely; they are not expected to occur.

SECTION 11: TOXICOLOGICAL INFORMATION (continued on page 5)

Toxicity: Triasulfuron: LD50 Oral, Rat >5000mg/kg LD50 Oral, Mouse = >5000mg/kg
LD50 Dermal, Rat = >2000mg/kg LC50 Inhalation, Rat = >5.18mg/L/4hr

Classification of Hazardous Ingredients

Ingredient	Risk Phrases
Triasulfuron	Not applicable.

- Hazardous to the aquatic environment (acute) - category 1
- Hazardous to the aquatic environment (chronic) - category 1

Potential Health Effects

Inhalation:

Short term exposure: Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term exposure: Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism. No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. This product, while believed to be not harmful, is likely to cause headache and gastric disturbance such as nausea and vomiting if ingested in significant quantities. This product is unlikely to cause any irritation problems in the short or long term.

Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

SECTION 12: ECOLOGICAL INFORMATION

Triasulfuron is very toxic to aquatic organisms and may cause long-term adverse effects to the aquatic environment.

Effects on Birds:

Triasulfuron has very low avian toxicity. The oral LD50 value for quail and ducks is greater than 2150 mg/kg

Effects on Aquatic Organisms:

Triasulfuron has very low toxicity to aquatic organisms. 96-hour LC50 values are greater than 100 mg/L in rainbow trout, carp, catfish, sheepshead minnow and bluegill sunfish. 96 hour toxicity tests with the freshwater invertebrate *Daphnia magna* resulted in a LC50 of greater than 100 mg/L.

Effects on Other Animals:

Triasulfuron has very low acute toxicity to honey bees with a topical LD50 of greater than 100 µg/bee. The LC50 for earthworms is greater than 1,000 mg/kg soil (14 day).

The EC50 (5-14day) for Algae are as follows: for *Selenastrum* 0.035, for *Scenedesmus* 0.77, for *Anabaena* 1.7 and for *Navicula* >100mg/L

Environmental fate:

In animals, mainly excreted in the urine in unchanged form.

DT50 in forage is about 3 days. In straw and grain, no residues were detectable at harvest time.

Soil/environment:

The degradation behaviour in soil is determined by the soil type, pH and especially temperature and moisture content. Field studies with silty loam, clay loam and sandy loam showed a median DT50 of 19 days, varying with soil type.

SECTION 13: DISPOSAL CONSIDERATIONS (continued on page 6)

Disposal of product	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®).
Disposal of Container	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.

SECTION 14: TRANSPORT INFORMATION

General Transport Information	It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.
Land	Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
Sea and Air	Considered DANGEROUS for transport by sea and air in accordance with the IMDG Code 37-14 IMDG, IATA UN 3077 Proper Shipping Name; IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Dangerous Goods Class; IMDG Class: 9 Miscellaneous dangerous substances and articles. Packing Group: IMDG, IATA III Marine pollutant: Yes EMS Number: F-A,S-F Hazchem Code: 179, 274, 331, 335, AU01 Special Provisions: 2Z Further information: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not classified as Dangerous within the Australian Code for the Transport of Dangerous Goods (ADG). This applies when transported by road or rail in packs that do not incorporate a receptacle exceeding 500 kg(L) or IBCs per ADG Special Provision AU01. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

Regulatory Information	
Poisons Schedule	
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 55374

SECTION 16: ANY OTHER RELEVANT INFORMATION

This Safety Data Sheet (SDS) was completed 27 January 2017 and replaces MSDS dated 02/08/15.

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