


**Section 1: Identification: Product identifier and chemical identity**

<b>Product Identifier:</b>	<b>Beanzone 480 Herbicide</b>
<b>Active Constituent:</b>	480 g/L Bentazone (present as sodium salt)
<b>Other Means of Identification:</b>	Agricultural Herbicide Grow Choice product code number: 2003 10 AVPMA registered number: 83184
<b>Recommended Use:</b>	For the selective post-emergence control of certain broadleaf weeds in green (dwarf french) beans, navy (haricot) beans, peanuts, red kidney beans, red mexican beans and soybeans per the Directions for Use table on the label.
<b>Details of manufacturer or importer:</b>	<b>Grow Choice Pty Ltd</b> ABN 36 161 264 884
<b>Address:</b>	<b>113 Fitzroy Street</b> <b>TAMWORTH NSW 2340</b> <b>AUSTRALIA</b>
<b>Website:</b>	<b>www.growchoice.com.au</b>
<b>Phone Number &amp; Email:</b>	<b>(02) 6766 3979 - admin@growchoice.com.au</b>
<b>Emergency Phone Number:</b>	<b>In Case Of Emergency Dial 000</b>
<b>Poisons Information Centre:</b>	<b>Phone: 13 11 26 and speak to a Poisons Information Specialist.</b> <b>Fax: +61 2 9845 3597 <a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a></b>

**Section 2: Hazards identification (cont. page 2)**

Classified as <b>HAZARDOUS</b> 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 <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)	
Considered <b>non-dangerous</b> for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)	
SUSMP Classification: <b>S5</b>	
<b>Classification of the hazardous chemical:</b>	Acute toxicity – Oral: Category 4 Sensitisation – Skin Category 1, 1A,1B Eye damage/irritation: Category 2
<b>GHS Symbol:</b>	
<b>Signal code and word:</b>	<b>WARNING</b>
<b>Hazard Statements:</b>	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
<b>Precautionary Statements (General):</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use
<b>Prevention:</b>	P261 Avoid breathing spray. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, clothing, eye and face protection.

<b>Response:</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
<b>Storage:</b>	Refer to Section 7
<b>Disposal:</b>	P501 Dispose of contents and container in accordance with local, regional and national regulations
<b>Other Information:</b>	Poisons Schedule S5

### Section 3: Composition and information on ingredients

Chemical characterization:	Liquid	
<b>Ingredients:</b>	<b>CAS No</b>	<b>Proportion</b>
Bentazone (present as sodium salt)	25057-89-0	480 g/L

### Section 4: First aid measures

<b>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.</b>	
<b>Swallow:</b>	If swallowed, DO NOT induce vomiting. Rinse mouth out with water if patient is conscious. Seek urgent medical attention
<b>Eye:</b>	If product gets in eyes, remove contact lenses if wearing and wash it out immediately with water for several minutes. Seek medical attention.
<b>Skin:</b>	Remove contaminated clothing and wash affected areas thoroughly with soap and water. Seek medical attention if concerned.
<b>Inhaled:</b>	Move affected person to fresh air and keep at rest until recovered. If inhaled remove to fresh air and keep at rest. Obtain medical advice if at all worried. If not breathing give artificial respiration and get medical attention as soon as possible.
<b>Medical attention and special treatment:</b>	In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist with a copy of this SDS or chemical Label.

### Section 5: Fire fighting measures

<b>Suitable extinguishing media:</b>	Water fog, carbon dioxide, dry chemical or alcohol resistance foam.
<b>Specific hazards from arising from the chemical:</b>	Product is not flammable though the concentrate is combustible. The product may emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
<b>Special Protective Equipment and Precautions for Fire Fighters:</b>	Fire fighters should wear Safe Work Australia approved self-contained breathing apparatus (AS/NZS 1715/1716) and full protective gear. Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of extinguishing agent and spillage safely later. Contamination of water bodies should be avoided.

## Section 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	In case of spillage it is important to take all steps necessary to: Instruct and ensure all bystanders to keep away from and upwind of spill/leak. Avoid eye and skin contact; Do not breathe dust; Avoid contamination of waterways; Ensure adequate ventilation. Refer to Section 8 for Personal Protection Equipment (PPE).
<b>Environmental precautions:</b>	Avoid contamination of waterways.
<b>Methods for containment and cleaning up:</b>	Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (e.g. sand or soil). Shovel the absorbed spill into drums. Collect in a suitable, closed container to dispose and clean the spilled area with water.

## Section 7: Handling and storage

<b>Precautions for safe handling:</b>	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. <b>Hygiene measures:</b> 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.
<b>Conditions for safe storage, including incompatibilities:</b>	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 (cont. page 4)

<b>Appropriate engineering controls:</b>	Control process conditions to avoid contact. Use in a well-ventilated area only. Use local exhaust ventilation to keep exposure levels below the exposure limits above. Keep stored in original container in a cool, well ventilated area, keeping the lid closed at all-times whilst in storage.
<b>Personal protective equipment (PPE):</b>	When opening the container and preparing the spray, cotton overalls buttoned to the neck and wrist, a washable hat and elbow length PVC chemical resistant and face shield or goggles. When using the prepared the spray, wear cotton overalls buttoned to the neck and wrist, 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. <b>Face and Eye Protection:</b> Face shield or goggles. <b>Clothing:</b> Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat. <b>Gloves:</b> Elbow-length chemical resistant PVC gloves. <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.

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 special 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**

<b>Appearance:</b>	Yellow brown liquid	<b>Flammability:</b>	Non-combustible material
<b>Odour:</b>	Faint odour	<b>pH:</b>	9 - 10 (1%)
<b>Specific Gravity:</b>	1.16 - 1.22	<b>Solubility in water:</b>	Soluble in water
<b>Vapour Pressure:</b>	Not volatile	<b>Other information:</b>	pKa is 3.3 (24°C)
<b>Partition Coefficient:</b>	Kow Log P is 0.77 (pH5), -0.46 @ pH7, -0.55 (pH9) for bentazone n-octanol/water		

**Section 10: Stability and reactivity**

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization:</b>	If Hazardous polymerisation is not possible.

**Section 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) 1000 - 2000 mg/kg for the formulated product
<b>Acute Toxicity – Dermal:</b>	LD50 (rat) >4000 mg/kg for the formulated product
<b>Acute Toxicity – Inhalation:</b>	LC50 (rat) (4hr) >4.8 mg/l for the formulated product
<b>Ingestion:</b>	Possible symptoms of exposure include: headache, nausea, dizziness and weakness.
<b>Inhalation:</b>	Symptoms of exposure by inhalation are similar to those described for ingestion.
<b>Skin:</b>	May irritate the skin.
<b>Eye:</b>	May irritate the eyes.
<b>Skin Sensitisation:</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<b>Reproductive Toxicity:</b>	Data indicates no teratogenic effects.
<b>Serious eye damage/irritation:</b>	Not an eye irritant.
<b>Mutagenicity:</b>	Data indicates no mutagenic effects.
<b>Skin corrosion/irritation:</b>	Not a skin irritant.
<b>Other information:</b>	The Australian Acceptable Daily Intake (ADI) for bentazone 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', December 2015).

## Section 12: Ecological information

<b>Persistence and degradability:</b>	Half life in soil is typically 12 days.
<b>Other precautions:</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental protection:</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity – Fish:</b>	Not toxic to fish. LC50 (96hr) for rainbow trout is >100 mg/l for bentazone LC50 (96hr) for bluegill sunfish is >100 mg/l for bentazone
<b>Acute Toxicity – Daphnia:</b>	LC50 (48hr) for daphnia is >500 mg/l for the formulation.
<b>Acute Toxicity - Other Organisms:</b>	Not toxic to birds. LD50 for bobwhite quail is 1140 mg/kg for bentazone Bees: Not toxic to bees. LD50 >100 µg/bee

## Section 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 (ChemClear®).
<b>Container Disposal:</b>	Do not use this container for any other purpose. Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsate to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. 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. DO NOT burn empty containers or product. 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.

## Section 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.

## Section 15: Regulatory information

<b>Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5</b>	
<b>Registration status: Registered</b>	<b>APVMA approval: 83184</b>

## Section 16: Any other relevant information

**Date of preparation or last revision:** This Safety Data Sheet (SDS) was completed 9 January 2022 and replaces SDS dated 17 January 2017.

**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)

TWA: Exposure Standard - time weighted average

STEL: Exposure standard - short term exposure limit.

mg/m<sup>3</sup>: Milligrams of substance per cubic metre of air at 25°C and one atmosphere pressure. The value is exact.

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**

**Source of Data:** The information provided in this SDS is sourced from Grow Choice studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

**Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions**

**CONTACT POINT:** Grow Choice Pty Ltd

(02) 6766 3979

**24 HOURS EMERGENCY CONTACT: 1800 033 111**

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

**DISCLAIMER**

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Grow Choice's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Grow Choice shall have no liability.

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