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## HALOFOP 520 HERBICIDE

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>Halofop 520 Herbicide</b>
<b>Active Constituent</b>	520g/L Haloxyfop-P (present as the methyl ester)
<b>Other means of Identification</b>	Agricultural herbicide. <b>GROUP A HERBICIDE</b> Grow Choice product code number: <b>2018</b> AVPMA registered number: <b>53237</b>
<b>Recommended use of the chemical and restrictions on due</b>	For the control of a wide range of annual and perennial broadleaf weeds, as specified in the Directions for Use Table
<b>Suppliers name, address and phone number:</b>	Grow Choice Pty Ltd 113 Fitzroy Street   TAMWORTH NSW 2340 Phone: 02 6766 3979 1800 817 676 Fax: 02 6766 2922   Email: <a href="mailto:admin@growchoice.com.au">admin@growchoice.com.au</a>
<b>Emergency phone number:</b>	In Case Of Emergency Dial 000
<b>Poisons Information Centre</b>	Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax: +61 2 9845 3597 <a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a>

### 2. HAZARDS IDENTIFICATION (continued on page 2)

-  Classified as **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

#### 2.1 Classification of the hazardous chemical

Acute toxicity	category 4
Hazardous to the aquatic environment (acute) -	category 1
Hazardous to the aquatic environment (chronic)	category 1

#### 2.2 Label Elements

**Signal Word**      **WARNING**  
**GHS Symbols**



Exclamation Mark



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**      H302      Harmful if swallowed.  
    H410.      Very toxic to aquatic life with long lasting effects

#### Precautionary Statements

**Prevention**      P264      Wash hands thoroughly after handling

	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment
<b>Response</b>	P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
	P330	Rinse mouth.
	P391	Collect spillage
<b>Storage</b>	P403 +P235 +P233	Store in a well-ventilated place. Keep cool. Keep container tightly closed.
	P405	Store locked up
<b>Disposal</b>	P501:	Dispose of contents and container in accordance with local, regional and national regulations.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical ingredients:	Component	CAS No	Concentration %
	Haloxyfop-P-methyl	72619-32-0	52
<b>CAS number and other unique identifiers:</b>			
<b>Concentration of ingredients:</b>	Other ingredients, including water	(non-hazardous)	balance

### 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 <b>DO NOT induce vomiting</b> . 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 medical advice if inhaled in large quantities or feel unwell.

#### Symptoms caused by exposure

Inhalation:	May be harmful if inhaled, causing similar symptoms to ingestion. May cause mild irritation:
Skin Contact	May cause skin irritation, itchiness and reddening.
Eye Contact	May cause eye irritation, stinging, reddening and watering.
Ingestion	Harmful if swallowed. May cause loss of appetite and damage to liver and kidneys.

### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Water fog, fine water spray, foam, dry chemical, carbon dioxide.
<b>Specific hazards arising from the chemical</b>	In a fire, Hazardous combustion products include oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide gas.
<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>	3Z

### 6. ACCIDENTAL RELEASE MEASURES (continued on page 3)

<b>Personal precautions, protective equipment</b>	In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces. Extinguish
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<b>and emergency procedures</b>	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. 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>Reference to other sections</b>	<b>Information regarding safe handling see section 7.</b> <b>Information regarding personal protective equipment see section 8.</b> <b>Information regarding waste disposal, see section 13.</b>

## 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. 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.
<b>Conditions for safe storage, including any 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.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued on page 4)

<b>Control parameters – exposure standards, biological monitoring</b>	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
<b>Appropriate engineering controls</b>	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.
<b>Personal protective equipment (PPE):</b>	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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Odour:</b>	Solvent-like
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	Undetermined.
<b>Flash Point:</b>	>70 °C (Pensky Martin closed cup)
<b>Flammability:</b>	Combustible liquid Class 1
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature: Explosion Limits:</b>	No information available
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	Not determined.
<b>Relative Density at 20 °C:</b>	1.1
<b>Vapour Density</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Emulsifies into water.
<b>Partition Coefficient (n-octanol/water):</b>	No information 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. Hazardous polymerisation will not occur.
<b>Conditions to avoid</b>	Heat, flames hot surfaces and direct sunlight. and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents, Acids and, Bases.
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of Oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide gas.

## 11. TOXICOLOGICAL INFORMATION (continued on page 5)

### Toxicity

#### LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification: 72619-32-0 Haloxyfop-P-methyl

Oral	LD <sub>50</sub>	393 mg/kg (rat)
Dermal	LD <sub>50</sub>	>5000 mg/kg (rabbit)

**Acute oral toxicity** Harmful if swallowed. May cause loss of appetite and damage to liver and kidneys.

**Acute inhalation toxicity** May be harmful if inhaled, causing similar symptoms to ingestion. May cause mild irritation.

<b>Acute dermal toxicity</b>	May cause skin irritation, itchiness and reddening.
<b>Acute eye damage</b>	May cause eye irritation, stinging, reddening and watering.
<b>Skin irritation</b>	Slight irritation (Rabbit) (product)
<b>Eye irritation</b>	Moderate eye irritation. (Rabbit) (product)
<b>Sensitisation</b>	Non-sensitizing. (Guinea pig) (product)
<b>Assessment mutagenicity</b>	Based on classification principles, the classification criteria are not met.
<b>Assessment carcinogenicity</b>	This product does NOT contain any IARC listed chemicals.
<b>Assessment toxicity to reproduction</b>	Based on classification principles, the classification criteria are not met.
<b>Assessment developmental toxicity</b>	Based on classification principles, the classification criteria are not met.
<b>Assessment STOT Specific target organ toxicity – repeated and single exposure</b>	Based on classification principles, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on classification principles, the classification criteria are not met.
<b>Chronic Health Effects:</b>	Prolonged exposure or delayed treatment may cause permanent eye damage. Prolonged exposure may cause liver and kidney damage.
<b>Information on likely routes of exposure</b>	Harmful if inhaled. Harmful if swallowed. Harmful if absorbed through skin. Irritating to skin. Causes eye irritation.
<b>Data limitations</b>	The Australian Acceptable Daily Intake (ADI) for Haloxyfop for a human is 0.0003 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.03mg/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

### **Aquatic toxicity: 72619-32-0 Haloxyfop-P-methyl**

LC<sub>50</sub> 96- >1000 mg/L (fish)

<b>Eco toxicity:</b>	Haloxyfop is non-toxic to bees and birds:  Very toxic to aquatic life with long lasting effects.
<b>Persistence and degradability</b>	Haloxyfop - half-life in soil is 55 - 100 days.
<b>Bio accumulative potential</b>	Haloxyfop-will not accumulate in the soil or water.
<b>Mobility in soil</b>	No information available
<b>Other adverse effects</b>	No information available

## 13. DISPOSAL CONSIDERATIONS (continued on page 6)

<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 (continued on page 8)

<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 non-dangerous 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 DANGEROUS for transport by sea and air in accordance with the IMDG Code 37-14
<b>IMDG, IATA</b>	
<b>UN Number</b>	UN3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains methyl (R)-2-(4-(3-chloro-5trifluoromethyl-2-pyridyloxy)phenoxy)propionate), MARINE POLLUTANT
<b>Dangerous Goods Class</b>	9 Miscellaneous dangerous substances and artic Miscellaneous dangerous substances and articles.
<b>IMDG, IATA Class</b>	III
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>EMS Number:</b>	F-A,S-F
<b>Hazchem Code:</b>	3Z
<b>Special Provisions:</b>	179, 274, 331, 335, AU01
<b>Limited Quantities:</b>	5L
<b>Packagings &amp; IBCs – Packing Instruction:</b>	P001, IBC03, LP01
<b>Packagings &amp; IBCs - Special Packing Provisions</b>	PP1
<b>Portable Tanks &amp; Bulk Containers - Instructions</b>	T4
<b>Portable Tanks &amp; Bulk Containers – Special Provisions:</b>	TP1, TP29

## 15. REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:  
Standard for the Uniform Scheduling of Drugs and Poisons  
(SUSMP)**

Haloxypop-P-methyl - 72619-32-0  
Poisons Schedule: 6

## 16. OTHER INFORMATION

Date of Review

This Safety Data Sheet (SDS) was reviewed 25 January 2017 and replaces the Material Data Safety Sheet dated 30/09/10 and any prior dated MSDS/SDS.

### 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.