



Safety Data Sheet

In accordance with Safe Work Australia

Choice Metolachlor 720 Herbicide

1. Product identifier & identity for the chemical

Product Identifier	Choice Metolachlor 720 Herbicide
Active Constituent	720 g/ L METOLACHLOR
Other means of Identification	Agricultural herbicide. GROUP K HERBICIDE Grow Choice product code number: 599 20 AVPMA registered number: 63859
Recommended use of the chemical and restrictions on due	For the control of certain annual grasses and broadleaf weeds in certain crops as specified in the 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

2. Hazard Identification

- 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 (refer Section 14)

2.1 Classification of the hazardous chemical

H317	Sensitization, Skin	Category 1
H400	Hazardous to the aquatic environment, acute hazard	Category 1
H410	Warning Hazardous to the aquatic environment, long-term hazard	Category 1

2.2 Label Elements

Signal Word

WARNING

GHS Symbols



Exclamation Mark



Health Hazard

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

- H317** May cause an allergic skin reaction
H400 Very toxic to aquatic life, acute hazard
H400 Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

- P261** Avoid breathing dust/fume/gas/mist/ vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P273 Avoid release to the environment.

Response

- P302 + P352** IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Storage

- P391** Collect spillage
P403 +P235 +P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405 Store locked up

Disposal

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

Product Name:

Issue Date: 23 January 2017

3. Composition/information on ingredients

Chemical ingredients: CAS number and other unique identifiers: Concentration of ingredients:	Component	CAS No	Concentration %
	Metolachlor	51218-45-2	72%
	Other ingredients, including water	(non hazardous)	balance
	Formulation type Emulsifiable concentrate	Active Ingredient Metolachlor	Chemical type acetanilide

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 medical advice if inhaled in large quantities or feel unwell.

Symptoms caused by exposure

Inhalation:	May cause mild respiratory irritation.
Skin Contact:	May cause mild skin irritation, sensitisation, allergic skin reaction, skin rash or inflammation.
Eye Contact	May cause mild eye irritation.
Ingestion:	May cause abdominal cramps, shortness of breath, diarrhea, nausea, weakness, jaundice, dark urine and anemia

Medical Attention and Special Treatment

5. Fire Fighting Measures

Suitable extinguishing media	Water fog, fine water spray, foam, dry chemical, carbon dioxide.
Specific hazards arising from the chemical	In a fire, irritant and toxic fumes containing oxides of carbon, nitrogen, phosphorus and sulphur, and other toxic substances may be generated.
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.
Hazchem Code	

6. Accidental release measures

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. Do NOT let this chemical enter the environment. Collect leaking and spilled liquid in covered containers as far as possible. Then store and dispose of according to local regulations. Personal protection: P2 filter respirator for harmful particles.
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.

7. Handling and Storage (continued on page 3)

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.
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Conditions for safe storage, including any incompatibilities:

After each day's use, wash gloves, face shield or goggles and contaminated clothing.
 Avoid contact with eyes and skin.
 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/personal protection (continued on page 4)**Control parameters – exposure standards, biological monitoring**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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.

9. Physical and chemical properties**Appearance**

Form	Liquid
Colour	Clear, colourless
Odour	Mild hydrocarbon odour
Odour Threshold	No information available
pH-Value	No information available
Melting point/Melting range	No information available
Initial Boiling Point/Boiling Range	No information available
Flash Point	No information available
Flammability	No information available
Auto-ignition Temperature	No information available
Decomposition Temperature	No information available
Explosion Limits	No information available
Lower	
Upper	No information available
Vapour Pressure	No information available
Relative Density	1.05
Vapour Density	No information available
Evaporation Rate	Not determined.
Solubility in Water	Emulsifies into water.
Partition Coefficient (n-octanol/water)	No information available

10. Stability and Reactivity (continued on page 4)

Thermal decomposition	Stable under normal conditions
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.

Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents, Acids, Bases, Alkali metals
10.6 Hazardous decomposition products	Thermal decomposition can lead to release of: Ammonia Oxides of carbon Nitrogen oxides (NOx) Oxides of phosphorus Sulphur oxides

11. Toxicological information

Toxicity	LD ₅₀ /LC ₅₀ Values Relevant for Classification: 51218-45-2 2-chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide Oral LD50 1200-2780 mg/kg (rat) Dermal LD50 > 2000 mg/kg (rat) Inhalation LC ₅₀ /4 h 4.3 mg/L (rat)
Acute oral toxicity	May cause abdominal cramps, shortness of breath, diarrhea, nausea, weakness, jaundice, dark urine and anemia.
Acute inhalation toxicity	May cause mild respiratory irritation.
Acute dermal toxicity	May cause mild skin irritation, sensitisation, allergic skin reaction, skin rash or inflammation.
Acute eye toxicity	May cause mild eye irritation.
Skin irritation	May cause mild skin irritation
Eye irritation	May cause mild eye irritation.
Respiratory or Skin Sensitisation	May cause an allergic skin reaction.
Assessment mutagenicity	Based on classification principles, the classification criteria are not met.
Assessment carcinogenicity	This product does NOT contain any IARC listed chemicals.
Assessment toxicity to reproduction	Based on classification principles, the classification criteria are not met.
Assessment developmental toxicity	Based on classification principles, the classification criteria are not met.
Assessment STOT Specific target organ toxicity – repeated and single exposure	Based on classification principles, the classification criteria are not met.
Aspiration hazard	Based on classification principles, the classification criteria are not met.
Chronic Health Effects	Exposure to metolachlor can damage the liver and cause irritation of the skin, eyes, and mucous membranes.
Information on likely routes of exposure	No further information known
Data limitations	The Australian Acceptable Daily Intake (ADI) for metolachlor for a human is 0.08 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 7.5 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', June 2014).
Further information	No further toxicological information is available.

12. Ecological information

Toxicity	
Eco toxicity	No information available
Aquatic toxicity	51218-45-2 2-chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide EC50 25.1 mg/L- 48 hr (daphnia) LC50 3.9 mg/L - 96 hr (rainbow trout)
Persistence and degradability	The half-life of metolachlor is approximately 90 days.
Bio accumulative potential	No information available
Mobility in soil	Metolachlor is highly to moderately mobile. The half-life of metolachlor in soil is about 56 days. Other adverse effects: No information available

13. Disposal considerations

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.

14. Transport information (continued on page 5)

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 non-dangerous for transport by sea and air in accordance with the IMDG Code 37-14

IATA

Product Name:

Issue Date: 23 January 2017

UN/ID No UN3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Metolaclor)
 Hazard Class 9
 Packing Group III
 Description Marine Pollutant

IMDG

UN/ID No UN3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Metolaclor)
 Hazard Class 9
 Packing Group III
 Description Marine Pollutant

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.

15. Regulatory information

Poisons Schedule number	Schedule 5
Safety, health and environmental regulations specific for the product in question	Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 Australian Pesticides and Veterinary Medicines Authority approval number: 63859

16. Other information

Date of Review	This Safety Data Sheet (SDS) was reviewed 25 January 2017 and replaces the Material Data Safety Sheet dated 17/08/10 and any prior dated MSDS/SDS.
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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.