



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 01.09.2021

Revision: 01.09.2021

**Product Name: 4FARMERS METSULFURON-METHYL 600 WDG SELECTIVE HERBICIDE**

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: 4FARMERS METSULFURON-METHYL 600 WDG SELECTIVE HERBICIDE****Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide**Details of Manufacturer or Importer:**4Farmers Australia Pty Ltd  
70 McDowell Street  
Welshpool WA 6106**Phone Number:** +61 8 9356 3446**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2. HAZARDS IDENTIFICATION

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

**Signal Word** Warning**Hazard Statements**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing

P273 Avoid release to the environment.

P281: Use personal protective equipment as required.

**Response**

P337: If eye irritation persists: seek medical attention

P352: Wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED: Rinse mouth, Do NOT induce vomiting.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

P391 Collect spillage.

**Storage**

P410: Protect from Sunlight.

P402&amp;P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

**Disposal**

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

**Emergency overview**

Physical Description &amp; Colour: White, Solid, dry flowable granule

Dour: No odour

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

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74223-64-6	Metsulfuron-methyl	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	60%
471-34-1	Carbonic acid, calcium salt (1:1)		<10%

### 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:** In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

### 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical powder and carbon dioxide.

**Specific Hazards Arising from the Chemical:**

Combustible solid. Clouds of dust in a confined or unventilated space may form an explosive mixture with air, and any source of ignition, flame or spark, will cause fire or explosion.

Hazardous combustion products include oxides of carbon, nitrogen and sulphur, hydrogen chloride, phosgene and other pyrolysis products typical of burning organic material.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

### 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

### 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:**

471-34-1 Carbonic acid, calcium salt (1:1)

NES TWA: 10 mg/m<sup>3</sup>

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below

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occupational exposure standards.

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**Respiratory Protection:**

Use a Safe Work Australia approved particulate respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	White to grey
<b>Odour:</b>	Mild chemical odour
<b>Odour Threshold:</b>	Not determined.
	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/Melting range:</b>	No specific information. Solid at normal temperatures. Metsulfuron-methyl melts at 158°C
<b>Initial Boiling Point/Boiling Range:</b>	No formation available
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Not determined.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Suspensible in water

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon, nitrogen and sulphur and hydrogen chloride.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****471-34-1 Carbonic acid, calcium salt (1:1)**

Oral	LD <sub>50</sub>	6450 mg/kg (rat)
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**Acute Health Effects****Inhalation:** May cause irritation to mucous membranes.**Skin:** May cause skin irritation.**Eye:** May cause eye irritation.**Ingestion:** May cause nausea and vomiting.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** No sensitising effects known.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated 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:**

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

Repeated or prolonged exposure to irritants may produce conjunctivitis.

**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for metsulfuron-methyl for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 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', March 2016).

**12 . ECOLOGICAL INFORMATION****Ecotoxicity:** Metsulfuron-methyl is not toxic to birds and bees.**Aquatic toxicity:**

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Persistence and Degradability:** Half-life of metsulfuron-methyl is 14-180 days.**Bioaccumulative Potential:** No information available**Mobility in Soil:** Metsulfuron-methyl has a higher mobility potential in alkaline soils.**13 . DISPOSAL CONSIDERATIONS****Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 . TRANSPORT INFORMATION****UN Number****ADG**

UN3077

Not subject to the ADG Code when transported in

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**IMDG, IATA**Australia by Road or Rail in packages 500kg(L) or less;  
or IBCs (refer to SP AU01).  
UN3077**Proper Shipping Name  
ADG**3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (2-chloro-N-[[[4-methoxy-  
6-methyl-1,3,5-triazin-2-yl]amino]carbonyl]  
benzenesulphonamide)**IMDG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (2-chloro-N-[[[4-methoxy-6-methyl-1,3,5-  
triazin-2-yl]amino]carbonyl]benzenesulphonamide),  
MARINE POLLUTANT**IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (2-chloro-N-[[[4-methoxy-6-methyl-1,3,5-  
triazin-2-yl]amino]carbonyl]benzenesulphonamide)**Dangerous Goods Class****ADG Class:**9 (M7) Miscellaneous dangerous substances and  
articles.**IMDG Class:**

9 Miscellaneous dangerous substances and articles.

**Packing Group:****ADG, IMDG, IATA**

III

**Marine pollutant:**

Yes

Symbol (fish and tree)

**EMS Number:**

F-A,S-F

**Hazchem Code:**

2Z

**Special Provisions:**

179, 274, 331, 335, AU01

**Limited Quantities:**

5 kg

**Packagings & IBCs - Packing Instruction:**

P002, IBC08, LP02

**Packagings & IBCs - Special Packing Provisions:** PP12, B3**Portable Tanks & Bulk Containers - Instructions:** T1, BK2**Portable Tanks & Bulk Containers - Special  
Provisions:**

TP33

**15 . REGULATORY INFORMATION****Australian Inventory of Chemical Substances:**

74223-64-6 Metsulfuron-methyl

471-34-1 Carbonic acid, calcium salt (1:1)

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not a scheduled poison.

**16 . OTHER INFORMATION****Date of Preparation or Last Revision:** 01.09.2021**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.