

# WELLFARM METSULFURON-METHYL 600 WG HERBICIDE

**APVMA Product No:** 68257  
**Poison Schedule:** 0

**Emergency Telephone Number:**

The Australian Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)  
Specialist Advice In An Emergency Only 1800 033 111 All Hours Australia Wide  
In A Transport Emergency Dial 000 Police Or Fire Brigade

**Not classified as hazardous according to the criteria of NOHSC.**

**Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.**

## 1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Company:** Wellfarm Pty Ltd  
**Website:** [www.wellfarm.com.au](http://www.wellfarm.com.au)  
**Email:** [info@wellfarm.com.au](mailto:info@wellfarm.com.au)  
**Postal Address:** 22 Calypso Crescent, Point Cook, Vic 3030

**Product Name:** WELLFARM METSULFURON-METHYL 600 WG HERBICIDE  
**Product Type:** Group B Herbicide  
**Formulation Type:** Water Dispersible Granule  
**Substance:** Metsulfuron-Methyl  
**Poison Schedule:** Not Scheduled  
**Chemical Family:** Sulfonyl Urea  
**Product Use:** For the control of brush and broadleaf weeds in native pastures, rights of way, commercial and industrial areas and for the control of certain broadleaved weeds in winter cereal crops.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization:** Solid

Chemical Entity	CAS No.	Conc. %
Metsulfuron-methyl	74223-64-6	60
Other Non-hazardous ingredients	secret to	100

This is a commercial product whose exact ratio of components may vary. Trace quantities of non hazardous ingredients are also possible.

## 3. HAZARDS IDENTIFICATION

**SUSDP Classification:** None allocated.  
**ADG Classification:** None Allocated. Not a Dangerous Good.  
**UN Number:** None Allocated  
**Poisons Schedule:** Not scheduled  
**General information:** If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 11 26 from anywhere in Australia.

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## 4. FIRST AID MEASURES

### General information:

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 11 26 from anywhere in Australia.

**Inhalation** Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

**Ingestion** Rinse mouth and then drink plenty of water. If vomiting occurs, give more water to drink to assist dilution. Do not give anything by mouth to a semi-conscious or unconscious person.

**Skin** Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists.

**Advice to Doctor** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Fire & Explosion Hazards:

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

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

**Suitable extinguishing media:** Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

**Flash Point:** Not flammable

**Upper Flammability Limit** No data

**Lower Flammability Limit** No data

**Autoignition Temperature** No data

**Flammability Class** No data

## 6. ACCIDENTAL RELEASE MEASURES

### Spills & Disposal

Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## 7. HANDLING AND STORAGE

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that these measures are followed.

**Storage:** Ensure that containers of this product are kept tightly closed. Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging for there may be further storage instructions on the label.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits:

Exposure limits have not been established by NOHSC Australia for any of the significant ingredients in this product. The ADI (Acceptable Daily Intake) for metsulfuron-methyl is set at 0.01mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 1mg/kg/day. Values taken from Australian ADI List, January 2001.

### Engineering Controls & Ventilation:

No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

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## Personal Protection:

**Respiratory Protection:** If the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred.

**Eye Protection:** When preparing product for use, wear face shield or goggles. Failure to protect your eyes may cause harm. Emergency eye wash facilities are recommended in an area close to where this product is being used.

**Skin Protection:** You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow length PVC gloves and facial protection should be worn when using this product, to prevent irritation. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Off white to tan water dispersible extruded granule
<b>Odour</b>	No odour
<b>Melting/softening point</b>	No specific data. Solid at normal temperatures
<b>Boiling point</b>	No specific data. Expected to decompose before boiling
<b>Vapour pressure</b>	$3.3 \times 10^{-7}$ Pa @25°C (metsulfuron-methyl)
<b>Flashpoint</b>	Does not burn
<b>Solubility in water</b>	Soluble
<b>Corrosiveness</b>	Not corrosive
<b>pH</b>	No data
<b>Flammability</b>	Non combustible material
<b>Partition co-efficient, n-octanol/water</b>	Kow Log P is 0.0018 (pH7, 25°C for metsulfuron-methyl)
<b>Other Information</b>	pKa is 3.8 (20°C, metsulfuron-methyl)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions. Hydrolyses at pH <7.

**Hazardous Polymerization:** Hazardous polymerisation is not possible.

**Hazardous Reaction:** Keep away from strong oxidising agents.

**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:** This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry.

**Incompatibilities:** Water, strong oxidising agents.

**Fire Decomposition:** If involved in a strong fire can release carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulphur (sulphur dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** Not a likely route of exposure when handling the concentrate. May cause irritation to mucous membranes.

**Ingestion:** Low toxicity. However, swallowing large amounts of concentrate may cause nausea and vomiting.

**Skin** May irritate the skin.

**Eye** The concentrate may cause irritation of the eyes.

**Chronic Effects** Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Acute Toxicity - Oral** - LD50 (rat) >5000 mg/kg for metsulfuron-methyl

**Acute Toxicity - Dermal** - LD50 (rabbit) >2000 mg/kg for metsulfuron-methyl

**Acute Toxicity - Inhalation** - LC50 (rat) (4hr) >5 mg/L for metsulfuron-methyl

**Other 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

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indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, December 2004).

## 12. ECOLOGICAL INFORMATION

### Acute Toxicity - Fish

LC50 (96 hr) for rainbow trout and bluegill sunfish is >150 mg/L for metsulfuron-methyl

### Acute Toxicity - Daphnia

EC50 (48 hr) for daphnia is >120 mg/L for metsulfuron-methyl.

### Acute Toxicity - Other Organisms

The following data is for the active ingredient, metsulfuron-methyl.

Birds: Not toxic to birds. LD50 for mallard duck is >2510 mg/kg

LD50 for bobwhite quail is >5620 mg/kg

Bees: Not toxic to bees. LD50 >44.3 µg/bee.

### Environmental Fate:

**Breakdown in Soil and Groundwater:** The breakdown of metsulfuron-methyl in soils is largely dependent on soil temperature, moisture content and pH. The chemical will degrade faster under acidic conditions and in soils with higher moisture content and higher temperature. Metsulfuron-methyl has a higher mobility potential in alkaline soils than in acidic soils, as it is more soluble under alkaline conditions. Metsulfuron-methyl is stable to photolysis, but will breakdown in ultraviolet light. Half-life estimates for metsulfuron-methyl in soil are wide ranging from 14 – 180 days, with an overall average of reported values of 30 days. Reported half-life values (in days) for soil include: clay – 178; sandy loam – 102; clay loam – 70, 14-28, 14-105; silty loam – 120-180.

**Breakdown in Surface Water:** The dissipation time for metsulfuron-methyl was investigated in a mixed wood/boreal forest lake. The DT50 or length of time required for half of the material to dissipate in water was > 48 days when high concentrations of metsulfuron-methyl were applied and 29.1 days at concentrations that might be expected if the chemical was applied for forestry uses. Metsulfuron-methyl is stable to hydrolysis at neutral and alkaline pHs and has half-life of 3 weeks at pH 5.0, 25°C and > 30 days at 15°C.

**Breakdown in Vegetation:** Metsulfuron-methyl is rapidly taken up by plants at the roots and on the foliage. The chemical is translocated throughout the plant but is not persistent. It is broken down to non-herbicidal products in tolerant plants.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** On site disposal of the concentrated product is not acceptable. Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

**Container Disposal** Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. Dispose of in accordance with local regulations. Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

**U.N. Number** None Allocated

**DG Class** None Allocated

**Hazchem Code** None Allocated

**Packing Group** None Allocated

### Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

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## 15. REGULATORY INFORMATION

**Poisons Schedule** Not Scheduled

**Packaging & Labeling**

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. Wellfarm Pty Ltd will NOT be responsible for any damages that may result from reliance on the information contained herein.

The Australian Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia).