

# MATERIAL SAFETY DATA SHEET



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**Emergency Contact:**  
**1800 033 111**

## SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name: eChem Metsulfuron-Methyl WG Herbicide**

**Full Product Name:** eChem Metsulfuron-Methyl WG Herbicide  
**Other Names:** Metsulfuron. A sulfonylurea herbicide, Group B Herbicide  
**Use:** A Water Dispersible Granule formulation for control of brush and broadleaf weeds.  
**Company:** eChem (Australia) Pty Ltd  
**Address:** 419 Frome Street, Moree NSW 2400  
**ACN/ABN:** 089 133 095  
**Telephone Number:** 02 6750 8019 **Fax Number:** 02 6752 3123  
**Emergency Contact:** 1800 033 111

## SECTION 2 HAZARDS IDENTIFICATION

**Not classified as hazardous according to criteria of Work Safe Australia.  
Not classified as a Dangerous Good according to the ADG Code.**

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

<b>CHEMICAL</b>	<b>CAS NUMBER</b>	<b>PROPORTION</b>
Metsulfuron-Methyl	74223-64-6	60% w/w
Other ingredients (including water) determined not to be hazardous		40% w/w

## SECTION 4 FIRST AID MEASURES

### FIRST AID

**Ingestion:** If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126.  
**Eye contact:** Immediately hold eyes open and flood with clean water. Ensure irrigation under eyelids by occasionally lifting them. If irritation persists, seek medical advice.  
**Skin contact:** Remove contaminated clothing. Wash skin with soap and water. If skin is irritated, seek medical advice.  
**Inhalation:** Remove to fresh air and observe until recovered. If effects persist, seek medical advice.

**Advice to Doctor:** Treat symptomatically, no specific requirements.

## SECTION 5 FIRE FIGHTING MEASURES

**Specific Hazard:** Not a fire or explosive hazard. Fine dust dispersed in air (particularly in confined spaces) may ignite if exposed to high temperature ignition source

**Extinguishing media:** Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff. On small fires, if area is heavily exposed to fire and if conditions permit, allow fire to burn itself out, as water may increase the contamination hazard. Contain all runoff.

## **SECTION 5 FIRE FIGHTING MEASURES (Continued)**

**Hazards from combustion products:** On burning may emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated.

## **SECTION 6 ACCIDENTIAL RELEASE MEASURES**

**Emergence procedures / Material and methods for containment and cleanup procedures:** Wear protective equipment to prevent skin contamination. In the case of spillage, contain and absorb spilled material with absorbent material such as sand, clay or cat litter. Vacuum, shovel or pump spilled material into an approved container and dispose of waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Keep out animals and unprotected persons.

If product has been spilled near trees or other valuable plants, remove the top 15 cm of soil after the initial clean up. Apply activated charcoal. The activated charcoal will absorb but not completely neutralise the product.

## **SECTION 7 HANDLING AND STORAGE**

**Precautions for Safe Handling:** No smoking, eating or drinking should be allowed where material is used or stored. May irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale dust or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

**Conditions for Safe Storage:** Store in the closed, original container in a well ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. Do not re-use container for any purpose. Empty containers and product should not be burnt.

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Exposure Guidelines:**

No exposure limits have been assigned by Work Safe Australia to the ingredients in this product. The following limits may be applicable.

<b>Ingredient</b>	<b>Limit (TWA mg/m<sup>3</sup>)</b>	<b>Standard</b>
Metsulfuron-Methyl	10 mg/m <sup>3</sup> (8 and 12 hour)	Du Pont
Dusts (not other wise classified)	10 mg/m <sup>3</sup>	Work Safe Australia

### **Biological Limit Values:**

No biological limit allocated.

### **Engineering controls:**

Use in ventilated areas. Keep containers closed when not in use. No special engineering controls are required.

### **Personal Protective equipment (PPE):**

**General:** Wear cotton overalls and chemical resistant gloves and face shield. Avoid skin and eye contact. Wash thoroughly before smoking, eating or using toilet facilities. Wash hands after use.

**Respiratory Protection:** Generally not required. Use of a respirator may be required in certain circumstances to protect from inhalation of dust.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Off white coloured granules.
<b>Odour:</b>	No odour.
<b>Boiling point:</b>	Solid - not applicable.
<b>Freezing point:</b>	Solid - not applicable.
<b>Bulk Density:</b>	1.58.
<b>Solubility in Water:</b>	Disperses and suspends in water.
<b>pH:</b>	No data available.
<b>Flammability:</b>	Not flammable.
<b>Corrosive hazard:</b>	Not corrosive.
<b>Flashpoint (°C):</b>	Solid - not applicable.
<b>Flammability Limits (%):</b>	Not flammable.
<b>Poisons Schedule:</b>	Not a scheduled poison.

## SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

**Conditions to avoid:** Avoid oxidising materials.

**Incompatible materials:** Keep away from oxidising materials.

**Hazardous decomposition products:** In a fire hazardous decomposition products are produced.

**Hazardous reactions:** No data.

## SECTION 11 TOXICOLOGICAL INFORMATION

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

### **Potential Health Effects:**

#### **ACUTE EFFECTS**

**Swallowed:** This product has low toxicity.

**Eye:** This product cause irritation with tearing, blurred vision or pain.

**Skin:** Low toxicity by dermal route. This product may be irritating to the skin. Repeated or prolonged exposure may lead to itching, burning, redness, swelling or rash. Product is not a primary irritant or sensitiser.

**Inhaled:** Low toxicity by this route. May irritate the throat and upper respiratory tract.

#### **Long Term Exposure:**

Not information is available on the formulated product. Animal testing on the active ingredient (metsulfuron-methyl) indicates that there is no carcinogenic, developmental or reproductive effects. Long term administration to animals caused loss of body weight.

**Mutagenic Effects:** There is a report indicating that metsulfuron-methyl produced genetic damage in a mammalian cell culture test, however, other tests in bacterial and mammalian cell cultures, and in animals, did not cause genetic change. The weight of evidence suggests that metsulfuron-methyl does not cause genetic damage.

## SECTION 12 ECOLOGICAL INFORMATION

**Environmental Toxicology:** No data is available on this product. The active ingredient, metsulfuron-methyl, is slightly toxic to birds. The LD<sub>50</sub> (mallard duck) > 2510 mg/kg and the dietary LC<sub>50</sub> (8 day) 5620 mg/kg (bobwhite quail). Metsulfuron is slight to moderately toxic to fish. The LC<sub>50</sub> (96-hour exposure) > 150 mg/L (bluegill sunfish and rainbow trout). The EC<sub>50</sub> (48-hour) > 150 mg/L (Daphnia). Metsulfuron is relatively non-toxic to bees. The LD<sub>50</sub> > 24 µg per bee.

## **SECTION 12 ECOLOGICAL INFORMATION (Continued)**

**Environmental Fate:** Metsulfuron-methyl is broken down in soil by chemical hydrolysis and microbial degradation. The half-life in soil varies from 1 to 5 weeks. Degradation occurs more rapidly in acidic soils, at higher temperatures and higher levels of soil moisture.  $K_{oc} = 35$  (pH 7).

## **SECTION 13 DISPOSAL CONSIDERATIONS**

**Spills and Disposal:** Persons involved in cleanup require adequate skin protection - see section 8. In case of spillage, contain and spilled material with material such as clay or sand and dispose of waste as indicated below or in accordance to the Australian Standard 2507- Storage and Handling of Pesticides. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. If product has been spilled near trees or other valuable plants, remove the top 15 cm of soil after the initial clean up. Apply activated charcoal. The activated charcoal will absorb but not completely neutralise the 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®).

**Container disposal:** Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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. Empty containers and product should not be burnt.

## **SECTION 14 TRANSPORT INFORMATION**

**Road & Rail Transport:** This product is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## **SECTION 15 REGULATORY INFORMATION**

Under the Standard for Uniform Scheduling of Drugs and Poisons (SUSDP), this product is not a schedule poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 58297.

This product is not classified as a Hazardous Substance under the criteria of Safe Work Australia.

This product is not classified as a Dangerous Good according to the ADG Code (7<sup>th</sup> Ed).

*Requirements concerning special training:*

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

## **SECTION 16 OTHER INFORMATION**

Issue Date: 30 April 2013. Valid for 5 years. (Updating address details).

Key to abbreviations and acronyms used in this MSDS:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

PPE: Personal protective equipment.

Teratogen: Capable of causing abnormalities in a developing foetus (ie birth defects).

**SECTION 16 OTHER INFORMATION (Continued)**

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. "Search Hazardous Substances". Safe Work Australia HSIS website. (2013).
2. "Approved Criteria for Classifying Hazardous Substances" 3<sup>rd</sup> Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.

*This MSDS 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 MSDS 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.*

End MSDS