



MATERIAL SAFETY DATA SHEET

TITAN SULFOMETURON 750 WG HERBICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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|----------------------------|---------------------------------------|
| Product Name | Titan Sulfometuron 750 WG Herbicide |
| Product Code | - |
| Other Names | - |
| Product Use | Herbicide |
| Company Name | Titan Ag Pty Ltd |
| Address | 3/14 Narabang Way Belrose NSW 2085 |
| Telephone Number | 02 9986 2943 |
| Emergency Telephone | 02 9986 2943 |

2. HAZARDS IDENTIFICATION

NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Not classified as hazardous according to the criteria of Safe Work Australia

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|-----------------------|---|
| Hazards | - |
| Risk Phrases | - |
| Safety Phrases | S22 - Do not breathe dust S25 - Avoid contact with eyes. |

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient (common name) | CAS Number | Proportion |
|--|-------------------|-------------------|
| Sulfometuron methyl | 74222-97-2 | 75% |
| Other ingredients determined not to be hazardous | - | 25% |

4. FIRST AID MEASURES

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| Inhalation | If inhaled remove victim to fresh air. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult. Seek medical attention if symptoms persist. |
| Ingestion | Immediately rinse mouth with water. If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms persist. |
| Skin | If skin or hair contact occurs brush away excess solids and wash affected area thoroughly with soap and water. Seek medical attention if symptoms persist. |
| Eyes | If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek medical attention if symptoms persist. |

5. FIRE FIGHTING MEASURES

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| Suitable Extinguishing Media | For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Carbon dioxide, dry chemical, foam and water fog. |
| Hazardous Combustion Products | Oxides of carbon, nitrogen and sulphur. |
| Firefighting Equipment | Recommended use of self contained breathing apparatus and full protective equipment. |
| Unusual Fire or Explosion Hazards | There is no risk of an explosion under normal circumstances. The product is not flammable. |
| Hazchem Code | Not allocated. |

6. ACCIDENTAL RELEASE MEASURES

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| Spills | In the event of a major spill wear full protective clothing including eye/face protection and a P1dust mask. Prevent spillage from entering drains or water courses. Product spill: Sweep granules and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Wash the spill area with detergent and water. Launder protective clothing before storage or re-use. |
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7. HANDLING AND STORAGE

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| Handling | Exercise normal care in handling. Avoid unnecessary skin and eye contact and inhalation of dust. |
| Storage | Store in the closed, original container in a dry, well ventilated area, as cool as possible. Keep container tightly sealed and away from incompatible materials. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Exposure Standards (Safe Work Australia) | No exposure standards set. |
| Engineering Controls | Use local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded. |
| Respiratory Protection | Usually, no respirator is necessary. Use a P1 dust mask. If in doubt see Australian Standard AS/NZS 1716 for more information. |
| Eye Protection | Wear safety glasses with side shields (or goggles) and a face shield. |
| Skin Protection | Wear protective gloves and protective clothing. |

Hygienic Practices 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|--------------------------------|--|
| Appearance | Light brownish grey granulated solid |
| Odour | Odourless |
| Solubility in water | Soluble – 244mg/L @ 25°C |
| Melting Point | 203-205°C |
| Boiling Point | Expected to decompose before boiling. |
| Vapour Pressure | 7.3×10^{-11} mPa (technical material) |
| pH | No information available |
| Specific Gravity | ~1.48 |
| Flash Point | Does not burn. |
| Flammable Limit – Lower | Does not burn. |
| Flammable Limit – Upper | Does not burn. |

10. STABILITY AND REACTIVITY

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| Chemical Stability | Stable under normal storage conditions. |
| Incompatible Materials | Strong acids, strong bases and strong oxidising agents. |
| Hazardous Decomposition Products | Oxides of nitrogen and sulphur. |
| Hazardous Polymerization | Will not occur. |
| Conditions to Avoid | Light |

11. TOXICOLOGICAL INFORMATION

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| Toxicity | Acute oral LD ₅₀ (rat) > 5000 mg/kg Acute dermal LD ₅₀ (rabbit) > 2000 mg/kg Inhalation LC ₅₀ (rat) > 5.3 mg/L |
| Routes of Exposure | Inhalation, ingestion, eye and skin |
| Acute Health Effects | Inhalation: May cause mild irritation. Ingestion: May be Irritating to mucous membranes. Eye: Can cause mild irritation. Skin: Product is unlikely to cause any discomfort in normal use. |
| Chronic Health Effects | No information available. |
| Existing Conditions | No information available. |
| Aggravated by Exposure | |
| Carcinogenicity | No (Safe Work Australia, NTP, IARC) |



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Birds:

Oral LD₅₀ (Mallard ducks) > 5000 mg/kg

Aquatic Organisms:

LC₅₀ (Rainbow trout) > 12.5mg/L – 96 hours

Mobility

No bioaccumulation has been detected.

Breakdown in Soil and Groundwater:

Sulfometuron-methyl is of low to moderate persistence in the soil environment. Half-life estimates in soil vary from 20-28 days.

Breakdown in Water:

In well aerated acidic water the compound is broken down quickly. Half-life estimates for sulfometuron methyl in water vary from 1-3 days to 2 months. Under anaerobic conditions the compound has a half-life of several months.

Breakdown in Vegetation:

Sulfometuron methyl is toxic to a number of plants and is non-selective. The use of the compound on non-croplands, including rights of way and along ditch banks may endanger both terrestrial and aquatic plant species

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

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number Not applicable

Proper Shipping Name Not applicable

Dangerous Goods Class Not applicable

Hazchem Code Not applicable

Packing Group Not applicable

Special Precautions Not applicable

15. REGULATORY INFORMATION

Sulfometuron methyl is listed in the Australian Inventory of Chemical Substances (AICS).

Poison Schedule: 5



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16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (03/08/2009)
Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au
Abbreviations Used IARC: International Agency for Research on Cancer
Safe Work Australia
NTP: National Toxicology Program (U.S.)
OSHA: Occupational Safety and Health Administration (U.S.)
STEL: Short term exposure limit
TWA: Time weighted average

Emergency Contacts

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|--|---------------------|
| Titan Ag Pty Ltd | 02 9986 2943 |
| Titan Ag Pty Ltd – Emergency Number | 02 9986 2943 |
| Police and Fire Brigade | 000 |
| Poisons Information Centre | 13 11 26 |

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Please read instructions / label before using product.