

# SAFETY DATA SHEET

PRODUCT NAME **Imtrade Tebuthiuron 200 GR Herbicide**  
APVMA Product Code: 94112

## 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **IMTRADE AUSTRALIA PTY LTD**  
Address 17 Ocean Street, Kwinana, Western Australia, AUSTRALIA, 6167  
Telephone 1800 171 799  
Fax 1800 171 788  
Emergency In a Transport Emergency Dial 000 – Police or Fire Brigade  
Web site <http://www.imtrade.com.au>  
Product Use: Agricultural herbicide for use as described on the product label.  
Creation Date: **October, 2023**  
This version issued: **First issue: January, 2024** and is valid for 5 years from this date.  
**Poisons Information Centre: Phone 13 1126 from anywhere in Australia**  
Product type: Herbicide containing Tebuthiuron.

## SECTION 2 - HAZARDS IDENTIFICATION

### Statement of Hazardous Nature

**SUSMP Classification:** S6

**ADG Classification:** Class 9: Miscellaneous Dangerous Goods.

**UN Number:** 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEBUTHIURON)



### GHS Signal word: **NONE.**

Hazardous To Aquatic Environment Short Term/Chronic - Category 2

### HAZARD STATEMENTS:

H411: Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS:

#### PREVENTION

P261: Avoid breathing dusts.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash contacted areas thoroughly after handling.

#### RESPONSE

P335: Brush off loose particles from skin.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam, water fog, to extinguish.

#### STORAGE

P405: Store locked up.  
P410: Protect from sunlight.  
P402+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 and containers as specified on the registered label.

## Emergency Overview

**Physical Description & Colour:** Granules, no data regarding colour.

**Odour:** No data.

**Major Health Hazards:** Tebuthiuron has moderate to low toxicity in experimental animals when ingested and by skin exposure. Tebuthiuron did not induce sensitization or allergic reactions when tested on the skin of guinea pigs. Application to the eyes of rabbits produced short-term conjunctivitis, inflammation of the lining of the eye, but no

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Issued by: Imtrade Australia Pty Ltd

Phone: 1800 171 788

**Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)**

irritation to other eye parts, the cornea, or the iris. The inhalation by animals of 3.7mg/L technical Tebuthiuron for 4 hours did not cause toxicity. no significant risk factors have been found for this product.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No	Conc, g/kg	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Tebuthiuron	34014-18-1	200	not set	not set
Other non hazardous ingredients	secret	to 1 kg	not set	not set

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

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

### SECTION 4 - FIRST AID MEASURES

#### General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

**Eye Contact:** Quickly and gently brush particles from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If product is swallowed or gets in mouth, do NOT induce vomiting. Wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

### SECTION 5 - FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire.

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

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam or water fog. Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC and Nitrile. Eye/face protective equipment should comprise, as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that dusts are likely to build up in cleanup area, we recommend that you use a suitable dust mask. Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

### SECTION 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 SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to

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persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Check packaging - there may be further storage instructions on the label.

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## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

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The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

### SWA Exposure Limits

### TWA (mg/m<sup>3</sup>)

### STEL (mg/m<sup>3</sup>)

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Tebuthiuron is set at 0.07mg/kg/day. The corresponding NOEL is set at 7mg/kg/day. ADI means Acceptable Daily Intake

NOEL means No-observable-effect-level. Data from Australian ADI List, March 2017.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

**Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.

**Skin Protection:** You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product for lengthy periods. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC, nitrile.

**Respirator:** If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

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<b>Physical Description &amp; colour:</b>	Granules, no data regarding colour.
<b>Odour:</b>	No data.
<b>Boiling Point:</b>	Not available.
<b>Flash point:</b>	No data
<b>Upper Flammability Limit:</b>	No data.
<b>Lower Flammability Limit:</b>	No data.
<b>Flammability Class:</b>	No data.
<b>Freezing/Melting Point:</b>	No specific data. Solid at normal temperatures.
<b>Volatiles:</b>	No data.
<b>Vapour Pressure:</b>	No data.
<b>Vapour Density:</b>	Not applicable.
<b>Specific Gravity:</b>	No data.
<b>Water Solubility:</b>	No data.
<b>pH:</b>	No data.
<b>Volatility:</b>	No data.
<b>Odour Threshold:</b>	No data.
<b>Evaporation Rate:</b>	Not applicable.
<b>Coeff Oil/water Distribution:</b>	No data
<b>Viscosity:</b>	Not applicable.
<b>Autoignition temp:</b>	No data.
<b>Particle Characteristics:</b>	Granules.

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## SECTION 10 - STABILITY AND REACTIVITY

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**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:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** strong acids, strong bases, strong oxidising agents.

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**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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**Toxicity:** Tebuthiuron has moderate to low toxicity in experimental animals when ingested. Reported oral LD50 values for Tebuthiuron are 644mg/kg in rats, 579mg/kg in mice, 286mg/kg in rabbits, greater than 200mg/kg in cats, and greater than 500mg/kg in dogs. Tebuthiuron is of slight to low toxicity by skin exposure. The dermal LD50 for Tebuthiuron in rabbits is greater than 200mg/kg. Neither skin irritation nor general overall intoxication were produced in rabbits that had 200mg/kg of the material applied to their skin. Tebuthiuron did not induce sensitization or allergic reactions when tested on the skin of guinea pigs. Application of 67 mg herbicide in the eyes of rabbits produced short-term conjunctivitis, inflammation of the lining of the eye, but no irritation to other eye parts, the cornea, or the iris. The inhalation by animals of 3.7mg/L technical Tebuthiuron for 4 hours did not cause toxicity.

**Chronic toxicity:** Decreases in body weight gain and red-blood cell counts, along with minor effects on the pancreas were seen in rats fed 125mg/kg/day for 3 months. Exposure of rats to dietary doses of Tebuthiuron as high as 80mg/kg/day for 2 years was well tolerated, with no indication of cumulative toxicity or serious effects. Similarly, no toxic effects were observed in mice exposed to doses as high as 200mg/kg/day for most of their lifetime, or in dogs given doses of 25mg/kg/day for 1 year.

**Reproductive effects:** The reproductive capacity of rats fed dietary concentrations of Tebuthiuron as high as 56mg/kg/day was unimpaired through three successive generations, and no abnormalities were detected in either parents or offspring. Tebuthiuron administered to pregnant rabbits at doses as high as 25mg/kg/day, and to rats at doses as high as 180mg/kg/day, produced no adverse effects on either the mothers or offspring. Based on these data, it is unlikely that Tebuthiuron causes reproductive effects.

**Teratogenic effects:** No teratogenic effects were observed when rats were fed Tebuthiuron at 180mg/kg/day. A rabbit teratology study was also negative at 25mg/kg/day, the highest dose tested. Based on these data, it is unlikely that Tebuthiuron causes birth defects.

**Mutagenic effects:** The Ames mutagenicity assay for Tebuthiuron was negative, as were assays for structural chromosome aberrations using mouse micronuclei. Based on these data, it appears that Tebuthiuron is not mutagenic.

**Carcinogenic effects:** No tumor related effects were observed in a 2-year rat feeding study at doses up to and including 80mg/kg/day, the highest dose tested. A 2-year oncogenic study on mice was negative at 200mg/kg/day, the highest dose tested. These data indicate that Tebuthiuron is not carcinogenic.

**Organ toxicity:** Damage to the pancreas has been observed in animal studies as a result of exposure to Tebuthiuron.

**Fate in humans and animals:** In rats, rabbits, dogs, mallards, and fish, Tebuthiuron is readily absorbed into the bloodstream from the gastrointestinal tract, rapidly metabolized, and then excreted in the urine. Tests indicate that the herbicide is broken down and excreted within 72 hours, primarily as a variety of urinary metabolites.

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## Classification of Hazardous Ingredients

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Ingredient	Health Hazard Statement Codes
<b>Tebuthiuron</b>	H302, H410
<ul style="list-style-type: none"><li>Acute Toxicity – Category 4</li><li>Hazardous to the Aquatic Environment (Acute) – Category 1</li><li>Hazardous to the Aquatic Environment (Chronic) – Category 1</li></ul>	

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## Potential Health Effects

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### Inhalation:

**Short Term Exposure:** Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

**Long Term Exposure:** No data for health effects associated with long term inhalation.

### Skin Contact:

**Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term skin exposure.

### Eye Contact:

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**Short Term Exposure:** This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

**Ingestion:**

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is not harmful. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term ingestion.

**Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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This product toxic to aquatic life with long lasting effects. This product is not readily biodegradable; it may accumulate in the soil or water and cause long term problems.

**Effects on birds:** Tebuthiuron is practically nontoxic to birds. The reported oral LD50 values are greater than 2500mg/kg in both mallard ducks and bobwhite quail. A 30-day feeding of 1000 ppm Tebuthiuron to hens had no effect.

**Effects on aquatic organisms:** Tebuthiuron is slightly to practically non-toxic to fish and other aquatic species. The reported 96-hour LC50 values are 87-144mg/L in rainbow trout, and 87 to 112mg/L in bluegill sunfish. The reported 96-hour LC50 values are greater than 160mg/L in goldfish and fathead minnow. The 48-hour LC50 in Daphnia, an aquatic invertebrate, is 225mg/L. The LC50 in fiddler crab is greater than 320mg/L; the LD50 in pink shrimp is more than 48mg/L.

**Effects on other organisms:** Tebuthiuron is slightly toxic to bees with a reported contact LD50 of 30mg/bee. Tebuthiuron may be harmful to non-target plants.

**Environmental Fate:**

**Breakdown in soil and groundwater:** Tebuthiuron is highly persistent in soil. Reported field half-lives are from 12 to 15 months in areas with over 100cm annual rainfall, with longer half-lives expected in drier areas or in soils with high organic matter content. Tebuthiuron is broken down slowly in the soil through microbial degradation.

Photodecomposition, or breakdown by sunlight, is negligible, as is volatilization (or evaporation from the soil surface). It is poorly bound to soil, suggesting high mobility. In field studies, however, little or no lateral movement has been seen in soils with appreciable clay or organic matter content. Neither Tebuthiuron nor its degradation products have been detected below the top 60cm of soil in field studies. It was found in some groundwater samples in Western of USA at levels up to 3.8 µg/L.

**Breakdown in water:** No degradation was observed in a 33-day study of photolysis of Tebuthiuron in water.

**Breakdown in vegetation:** Tebuthiuron is readily absorbed through roots and translocated to other plant parts. It produces its effect by inhibiting photosynthesis, the process by which plants receive light from the sun and convert it into energy.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

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**SECTION 14 - TRANSPORT INFORMATION**

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**Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L) or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by Air or Sea transport (see details below).**

**UN Number:** 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEBUTHIURON)

**Hazchem Code:** 2Z

**Special Provisions:** 274, 331, 335, 375, AU01

**Limited quantities:** ADG 7 specifies a Limited Quantity value of 5 kg for this class of product.

**Dangerous Goods Class:** Class 9: Miscellaneous Dangerous Goods.

**Packing Group:** III

**Packing Instruction:** P002, IBC08, LP02

Class 9 Miscellaneous Dangerous Goods shall not be loaded in the same vehicle or packed in the same freight container with Dangerous Goods of Class 1 (Explosives).

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**SECTION 15 - REGULATORY INFORMATION**

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**AICS/AIIC:** All of the significant ingredients in this formulation are compliant with AICIS regulations.  
The following ingredient: Tebuthiuron, is mentioned in the SUSMP.

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**SECTION 16 - OTHER INFORMATION**

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**This SDS contains only safety-related information. For other data see product literature.**

**Acronyms:**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
<b>AICS/AIIC</b>	Australian Inventory of Industrial Chemicals
<b>SWA</b>	Safe Work Australia, formerly ASCC and NOHSC
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>UN Number</b>	United Nations Number

This SDS summarises our best knowledge of the health and safety hazard information on the product, and how to safely handle and use the product in the workplace. Each user should read this SDS 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 Imtrade Australia Pty Ltd, or in the event of an emergency, 000. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020) and GHS Revision 7  
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End of Report

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