

SAFETY DATA SHEET



DuPont™ Titus® herbicide

Version 2.0

Revision Date 18.02.2010

Ref. 13000000224

This SDS adheres to the standards and regulatory requirements of Australia and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : DuPont™ Titus® herbicide
Use of the : Herbicide
Substance/Mixture
Company : Du Pont (Australia) Ltd
7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Telephone : (02) 9923 6111
Telefax : (02) 9923 6011
Emergency telephone : (02) 9923 6275 (Transport Emergency)
(24 hr Emergency Medical Information: 1800 674 415)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : B10022922

Components

Chemical Name	CAS-No.	Concentration
Rimsulfuron	122931-48-0	25 %
Inert Ingredients		75 %

3. HAZARDS IDENTIFICATION

Hazardous classification

Not classified as dangerous goods according to the ADG Code.
Not regulated as a hazardous material by IATA.
Optional classification as per IATA Special Provision A97.
Not classified as hazardous according to criteria of NOHSC.

Risks

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety data

Avoid contact with skin and eyes.
Use appropriate container to avoid environmental contamination.
This material and its container must be disposed of as hazardous waste.

4. FIRST AID MEASURES

General advice : If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.

Inhalation : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary.

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- Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison information centre or doctor for treatment advice.
- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison information centre or doctor for treatment advice.
- Ingestion : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet (contamination risk)
- Specific hazards during fire fighting : Not a fire or explosion hazard
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Small fires: If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Methods for cleaning up : Shovel or sweep up. Avoid dust formation. Dispose of in an approved container.
- Additional advice : Dispose of in accordance with local regulations

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Wash hands thoroughly after handling

Storage

- Requirements for storage areas and containers : Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits**

No information available

Engineering measures

Use only with adequate ventilation.

Personal protective equipment

Respiratory protection : None specified

Hand protection : None specified

Eye protection : Opening the container and preparing spray:

Face-shield, Goggles

Skin and body protection : None specified

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. For environmental protection remove and wash all contaminated protective equipment before re-use. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Dispose of rinse water in accordance with local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid

Colour : Off-white , to, tan

Odour : None

pH : 7.0 (1% solution in water)

Explosive properties : Not explosive

Bulk density : 617 kg/m³ loose

Water solubility : Dispersible

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10. STABILITY AND REACTIVITY

- Hazardous decomposition products : No information available
- Hazardous reactions : Polymerization will not occur. Stable under normal conditions

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50/Rat : > 5,000 mg/kg
- Acute inhalation toxicity : LC50/4 h/Rat : > 7.5 mg/l
- Acute dermal toxicity : LD50/Rabbit : > 2,000 mg/kg
- Skin irritation : Rabbit
Result: No skin irritation
- Eye irritation : Rabbit
Result: No eye irritation
- Sensitisation : Guinea pig
Result: Animal test did not cause sensitisation by skin contact
- Repeated dose toxicity : Oral, Rat
Altered blood chemistry, Liver effects, Organ weight changes
Active ingredient
- Mutagenicity assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Did not show mutagenic effects in animal experiments.
Active ingredient
- Carcinogenicity assessment : Did not show carcinogenic effects in animal experiments
Active ingredient
- Toxicity to reproduction assessment : Animal testing did not show any effects on fertility
Active ingredient
- Assessment teratogenicity : Evidence suggests the substance is not a developmental toxin in animals
Active ingredient

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

- Toxicity to fish : LC50/96 h/*Oncorhynchus mykiss* (Rainbow trout): > 1,000 mg/l
LC50/96 h/*Lepomis macrochirus* (Bluegill sunfish): > 1,000 mg/l

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Toxicity to algae : ErC50/72 h/*Pseudokirchneriella subcapitata* (Green algae): 4.565 mg/l
 Aquatic toxicity : EC50/48 h/*Daphnia magna* (Water flea): > 1,000 mg/l

13. DISPOSAL CONSIDERATIONS

Contaminated packaging : Do not re-use empty containers

Triple or preferably pressure rinse containers before disposal. Rinse empty containers with water and use the rinse-water to prepare the working solution. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. Empty containers can be landfilled, when in accordance with the local regulations. Puncture container to avoid re-use. 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. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION**IMDG**

UN-Number : 3077
 Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
 (Rimsulfuron)
 Class : 9
 Packing group : III
 Labelling No. : 9
 Marine pollutant : Yes (Rimsulfuron)

Further information : Not classified as dangerous goods according to the ADG Code.
 Not regulated as a hazardous material by IATA.
 Optional classification as per IATA Special Provision A97.

15. REGULATORY INFORMATION**Labelling**

Symbol(s) : N Dangerous for the environment
 Hazardous components : Potassium dihydrogenorthophosphate
 R-phrase(s) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 S-phrase(s) : S24/25 Avoid contact with skin and eyes.
 S57 Use appropriate container to avoid environmental contamination.
 S60 This material and its container must be disposed of as hazardous waste.
 Further information : Not classified as hazardous according to criteria of NOHSC.

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National regulatory information

SUSDP : Schedule 5

To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION**Sources of key data used to compile the Safety Data Sheet:**

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Code for the Transport of Dangerous Goods by Road & Rail No. 7 [National Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Department:

Du Pont (Australia) Ltd
7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Further information:

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Take notice of the directions of use on the label.

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