SAFETY DATA SHEET

DuPont™ Titus® herbicide

Version 2.0
Revision Date 18.02.2010   Ref. 130000000224

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 Substance/Mixture : Herbicide
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rimsulfuron</td>
<td>122931-48-0</td>
<td>25 %</td>
</tr>
<tr>
<td>Inert Ingredients</td>
<td></td>
<td>75 %</td>
</tr>
</tbody>
</table>

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.
### 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.
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
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
Toxicity to algae: ErC50/72 h/\textit{Pseudokirchneriella subcapitata} (Green algae): 4.565 mg/l
Aquatic toxicity: EC50/48 h/\textit{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

\textbf{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

\textbf{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.
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:
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
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]

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

Further information:
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