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## MATERIAL SAFETY DATA SHEET

® DuPont Registered Trademark  
N/R In Product Identification section means Not Regulated as a Dangerous Good and no UN number is allocated.

Infosafe No: US751

ISSUED DuPont 1/12/98

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### PRODUCT: DUPONT TITUS<sup>®</sup> HERBICIDE

*Not Classified As Hazardous According To Criteria Of WorkSafe Australia*

#### PRODUCT IDENTIFICATION

**UN No:** N/R

**Poisons:** S5 (Fed)

**Tradenames:**  
Titus<sup>®</sup> herbicide

**Manuf.:**  
DuPont

**ManCode:**

**Use:** For the control of certain broadleaf weeds and grasses in tomatoes.

**Ingredients:**  
Rimsulfuron  
Inert ingredients

**CAS No:**  
122931-48-0

**Proportion:**  
25 %  
75 %

#### Physical Description / Properties:

Appearance:

Odour: No distinct odour  
Colour: Off-white to tan  
Form: Solid, water dispersible granules

Other Physical Data:

Bulk density: 0.62 - 0.72 g/mL  
Solubility in water: Dispersible  
Chemical Family: Sulfonylurea

#### HEALTH HAZARD INFORMATION

##### Acute Effects

Swallowed:

Very low toxicity by ingestion, LD<sub>50</sub> (rat) is 5000 mg/kg.

Eyes:

Moderate eye irritant. Produced mild or moderate conjunctival redness, no or moderate iritis and slight or mild chemosis.  
All positive irritant effects cleared by 48 hours following treatment.

Skin:

Slightly toxic by skin contact. LD<sub>50</sub> (rabbit) is > 2000 mg/kg. Not a skin irritant or sensitiser in animal tests.

Inhalation:

Very low toxicity by inhalation LC<sub>50</sub> (4 hrs) (rat) is > 7.5 mg/L air

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**PRODUCT: DUPONT TITUS<sup>®</sup> HERBICIDE**

## HEALTH HAZARD INFORMATION (Continued)

**Chronic Effects**

None established for finished product.

Rimsulfuron: Animal studies have shown that repeated doses do not produce carcinogenic, teratogenic, mutagenic or adverse reproduction effects.

Mutagenicity: Rimsulfuron was not genotoxic in the following assays: Ames assay, mutagenicity test in Chinese hamster Ovary Cells, unscheduled DNA synthesis in rat hepatocytes, chromosomal aberration study using human lymphocytes and in the *in vivo* micronucleus assay in mice.

Carcinogenicity: None of the components in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

**First Aid**

## Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice and show this MSDS to a medical practitioner.

## Skin:

In case of contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before re-use.

## Inhaled:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice and show this MSDS to a medical practitioner.

## Swallowed:

If swallowed, seek medical advice and show this MSDS to a medical practitioner. Never give anything by mouth to an unconscious person.

**PRECAUTIONS FOR USE**

## Exposure Standards:

NOHSC has not assigned an exposure standard for rimsulfuron

## Engineering Controls:

Use only with adequate ventilation.

## Personal Protection:

Avoid contact with eyes and skin. When opening the container and preparing spray wear face shield or goggles. If product comes into contact with the skin, immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Wash hands after use.

## Flammability:

This product poses no explosion hazard in the granular form.

## Environment:

96 hr LC<sub>50</sub> (bluegill sunfish): >1000mg/L

96 hr LC<sub>50</sub> (rainbow trout): >1000mg/L

Dietary LC<sub>50</sub> (bobwhite quail and mallard duck): >5620mg/kg

**PRODUCT: DUPONT TITUS<sup>®</sup> HERBICIDE****SAFE HANDLING INFORMATION****Storage and Transport:**

Store in the closed, original container in a cool, well-ventilated area.. Keep container tightly closed. DO NOT store for prolonged periods in direct sunlight. Keep from contact with fertilisers, insecticides, fungicides and seeds. DO NOT consume food, drink or tobacco in the areas where they may become contaminated with this material.

**Spills and Disposal:**

DO NOT re-use container. 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, vegetation and roots. Empty containers and product should not be burnt.

This product may cause injury to or loss of trees and other vegetation, including aquatic plants. DO NOT apply or drain or flush equipment on or near trees or other plants or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.

In case of spill clear area of all unprotected personnel. Wear protective clothing to avoid contact with skin and eyes. Contain spill. DO NOT allow product to enter waterways. Clean up by scoop or vacuum into open head drums. DO NOT sweep the powder. Where loss of trees or other vegetation including aquatic plants is a concern, clean up of a spill on the ground should include removal of the upper layer of top soil for disposal at a proper disposal site. Contact Local State or Federal Authority for advice on disposal of large quantities. Decontaminate equipment by rinsing with a 0.5% by volume solution of chlorine bleach (5% sodium hypochlorite).

**Reactivity Data:**

Stable at normal temperatures and storage conditions. No incompatibilities reasonably foreseeable. Polymerisation will not occur.

**Fire/Explosion Hazard:**

Not a fire and explosion hazard. Like most organic powders, or crystals, under severe dusting conditions, this material may form explosive mixtures in air. Evacuate personnel to a safe area. Wear self-contained breathing apparatus and full protective equipment. Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>). On small fires, if area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.

**ADDITIONAL INFORMATION****Contact Points:**

For sales, technical, and product related enquiries contact DuPont's North Sydney office on (02) 9923 6111. Outside the Sydney metropolitan area phone toll free on 1800 252 997. To assist communications, ask for the Customer Service, Technical, or Marketing personnel for the product family relative to the enquiry.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.