



Titus®

Herbicide

SAFETY DATA SHEET according to EC directive 2001/58/EC

TITUS

Revision Date 09.01.2004 Ref. 130000000224

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

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

Product information

Product name : TITUS

Synonyms : Titus 25 DF, Tarot, Rush, Elim, Prism 25 DF, Cato Komponent A, B10022922.

Use of the Substance/
Preparation : herbicide

Company : Du Pont (U.K.) Limited,
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Emergency
telephone number: +44 (0)2871 861 313

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Rimsulfuron	122931-48-0			25
Sodium alkylnaphthalenesulfonate, formaldehyde condensat			Xi; R36/38	13,2

For the full text of the R phrases mentioned in this Section, see Section 16.

3. FIRST AID MEASURES

General advice: Never give anything by mouth to an unconscious person. For specialist advice physicians should contact the National Poisons Information Service, (24-hr), Tel: 0870-600-6266.

Inhalation: Move to fresh air. Consult a physician.

Skin contact: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Ingestion: Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.

4. FIRE-FIGHTING MEASURES

Suitable extinguishing media: water spray, dry chemical, foam, carbon dioxide (CO₂),

Extinguishing media which must not be used for safety reasons: high volume water jet, (contamination risk),

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information : (on 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 spray water.

5. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear personal protective equipment.

Environmental precautions:

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Methods for cleaning up:

Clean up promptly by scoop or vacuum. If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal.

6. HANDLING AND STORAGE

Handling

Advice on safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Wear personal protective equipment.

Advice on protection against fire and explosion: Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep out of the reach of children.

Advice on common storage: No materials to be specially mentioned.

Other data: Stable under recommended storage conditions.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection: Half mask with a particle filter P2 (EN 143).

Hand protection: Nitril rubber gloves, Do not wear cotton or leather gloves., The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection: Safety glasses

Skin and body protection: Lightweight protective clothing

Hygiene measures: Wash hands 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. Dispose of rinse water in accordance with local and national regulations.

Protective measures: All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

8. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid,
Colour	: beige,
Odour	: mild, not significant,
pH	: 7,0 at 10 g/l
Flash point	: not applicable
Explosive properties	: Not explosive
Bulk density	: 670 kg/m ³ , loose
Water solubility	: dispersible

9. STABILITY AND REACTIVITY

Conditions to avoid: Processing temperature : > 100 °C

Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx),

Hazardous reactions: No decomposition if stored and applied as directed.

10. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD ₅₀ /rat : > 5 000 mg/kg
Acute inhalation toxicity	: LC ₅₀ /4 h/rat : > 7,5 mg/l
Acute dermal toxicity	: LD ₅₀ /rabbit : > 2 000 mg/kg
Skin irritation	: No skin irritation
Eye irritation	: No eye irritation
Sensitization	: Did not cause sensitization on laboratory animals.

11. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Ecotoxicity effects

Toxicity to fish:	
LC50/96 h/Rainbow trout:	> 1 000 mg/l
Toxicity to fish:	
LC50/96 h/Bluegill sunfish:	> 1 000 mg/l
Toxicity to algae:	
EC50/72 h/ selenastrum capricornutum:	4,565 mg/l
Aquatic toxicity:	
EC50/48 h/Daphnia:	> 1 000 mg/l

12. DISPOSAL CONSIDERATIONS

Product: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Dispose of rinse water as waste water. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging: Do not re-use empty containers.

13. TRANSPORT INFORMATION

Further Information: Not classified as dangerous in the meaning of transport regulations.

14. REGULATORY INFORMATION

Labelling according to EEC Directive

Exceptional labelling of special preparations:
To avoid risks to man and the environment, comply with the instructions for use.

Further information:

The product is non-dangerous in accordance with Directive 1999/45/EC.

15. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R36/38 Irritating to eyes and skin.

Further information

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