

**GRANSTAR® 75DF**

Version 2.2

Revision Date 10.11.2010

Ref.130000000493

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : GRANSTAR® 75DF

Synonyms : B10044203
: DPX-L5300 75DF

Use of the Substance/Mixture : Herbicide

Company : DuPont de Nemours South Africa (Pty) Ltd
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2. HAZARDS IDENTIFICATION

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Registration number	Classification	Concentration [%]
Tribenuron methyl	101200-48-0	401-190-1		R43 N; R50 -R53	75
Sodium carbonate	497-19-8	207-838-8		Xi; R36	>= 1 - < 5
Sodium Methylnaphthalenesulfonate	26264-58-4	247-564-6		Xi; R36/38	>= 1 - < 5

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

4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person.

Inhalation : Move to fresh air. Consult a physician after significant exposure. Artificial

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- respiration and/or oxygen may be necessary.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion : Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂),
- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk),
- Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂) nitrogen oxides (NO_x)
- Special protective equipment for fire-fighters : Wear full protective clothing and self-contained breathing apparatus.
- 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.
- (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 water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal.



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Clean-up methods - large spillage Avoid dust formation. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.

Additional advice : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Use only according to our recommendations. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Provide appropriate exhaust ventilation at places where dust is formed. Avoid exceeding of the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

Storage

Requirements for storage areas and containers : Store in original container. Keep in properly labelled 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 special restrictions on storage with other products.

Storage temperature : < 50 °C

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery.

Personal protective equipment

Respiratory protection : Manufacturing and processing work: Half mask with a particle filter FFP1 (EN149)

Respiratory protection : Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149)

|| Respiratory protection : Spray application - outdoor: No personal respiratory protective equipment

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<div style="display: flex; align-items: center;"> <div style="border-left: 3px solid black; height: 20px; margin-right: 5px;"></div> <div style="border-left: 3px solid black; height: 20px; margin-right: 5px;"></div> </div>	<p>Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).</p> <p>Spray application - outdoor: Full protective clothing Type 4 (EN 14605) Rubber or plastic boots</p> <p>Spray application - indoor: Full protective clothing Type 4 (EN 14605) Rubber or plastic boots</p> <p>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.</p> <p>Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. Only protected handlers may be in the area during application.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

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Form	:	solid, granular,
Colour	:	light brown,
Odour	:	mild, sweet,
pH	:	8,0 at 10 g/l (25 °C)
Melting point/range	:	Not available for this mixture.
Flash point	:	not applicable
Flammability (solid, gas)	:	Does not sustain combustion.
Autoignition temperature	:	400 °C
Oxidizing properties	:	The product is not oxidizing.
Explosive properties	:	Not explosive
Bulk density	:	730 kg/m ³
Water solubility	:	, dispersible
Viscosity, dynamic	:	, not applicable

10. STABILITY AND REACTIVITY

Conditions to avoid	:	Processing temperature : > 140 °C Decomposes slowly on exposure to water. To avoid thermal decomposition, do not overheat. Under severe dusting conditions, this material may form explosive mixtures in air.
Materials to avoid	:	No materials to be especially mentioned.
Hazardous reactions	:	No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50/ rat: > 5 000 mg/kg(Data on the product itself) Information source: Internal study report
Acute inhalation toxicity	:	
• Tribenuron methyl	:	LC50/ 4 h/ rat : > 6,0 mg/l
Acute dermal toxicity	:	LD50/ rabbit > 2 000 mg/kg (Data on the product itself) Information source: Internal study report
Skin irritation	:	rabbit Result: No skin irritation (Data on the product itself) Information source: Internal study report

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- Eye irritation : rabbit
Result: No eye irritation (Data on the product itself) Information source: Internal study report
- Sensitisation : guinea pig Result: Animal test did not cause sensitization by skin contact. (Data on the product itself) Information source: Internal study report
- Mutagenicity assessment
Tribenuron methyl : Did not cause genetic damage in cultured bacterial cells., Did not cause genetic damage in cultured mammalian cells., Did not cause genetic damage in animals.
- Carcinogenicity assessment
• Tribenuron methyl : An increased incidence of tumours was observed in laboratory animals.
- Toxicity to reproduction assessment
• Tribenuron methyl : Animal testing showed no reproductive toxicity.

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

- Biodegradability : Not readily biodegradable. Estimation based on data obtained on active ingredient.
- Bioaccumulation : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Ecotoxicity effects

- Toxicity to fish : LC50/ 96 h/ Oncorhynchus mykiss (rainbow trout) :: 260 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report
- LC50/ 96 h/ Lepomis macrochirus (Bluegill sunfish) :: 340 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report
- Toxicity to algae : / EbC50/ 72 h/ Pseudokirchneriella subcapitata: 0,06 mg/l
Method: OECD Test Guideline 201
(Data on the product itself) Information source: Internal study report
- / EC50/ 336 h/ Lemna gibba (duckweed): 0,029 mg/l
Method: ASTM E 1415-91
(Data on the product itself) Information source: Internal study report
- Toxicity to daphnia : / EC50/ 48 h/ Daphnia magna (Water flea): > 1,000 mg/l
Method: OECD Test Guideline 202
(Data on the product itself) Information source: Internal study report
- Chronic toxicity to fish
• Tribenuron methyl : / NOEC/ 21 d/ Oncorhynchus mykiss (rainbow trout): > 560 mg/l

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Chronic toxicity to aquatic Invertebrates

- Tribenuron methyl : / NOEC/ 21 d/ Daphnia magna (Water flea): 120 mg/l

13. 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. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION**ADR**

Class: 9
 Packaging group: III
 Classification Code: M7
 HI No.: 90
 UN number: 3077
 Labelling No.: 9
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Tribenuron methyl)

IMDG

Class: 9
 Packaging group: III
 UN number: 3077
 Labelling No.: 9
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Tribenuron methyl)

Further information : Not classified as dangerous in the meaning of air transport regulations., Optional classification as per IATA Special Provision A97.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Symbol(s) : N Dangerous for the environment

Hazardous components: Tribenuron methyl

R-phrase(s) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S 2 Keep out of the reach of children.
 S13 Keep away from food, drink and animal feedingstuffs.
 S20/21 When using do not eat, drink or smoke.

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S46	If swallowed, seek medical advice immediately and show this container or label.
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.
SP 1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Special labelling of certain mixtures : To avoid risks to man and the environment, comply with the instructions for use.

Sensitising components contains:
Tribenuron methyl
May produce an allergic reaction.

16. OTHER INFORMATION**Text of R-phrases mentioned in Section 3**

R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

Further information

Before use read DuPont's safety information., Take notice of the directions of use on the label.

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Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.