

**GRANSTAR® 75DF**

Version 4.0

Revision Date 18.02.2008

Ref. 130000000493

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

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

Product name : GRANSTAR® 75DF

Synonyms : B10044203
: DPX-L5300 75DF

Use of the Substance/Preparation : Herbicide

Company : DuPont International Operations S.a.r.l.
2, chemin du Pavillon
CH-1218 Le Grand-Saconnex / GE
Switzerland

Telephone : +41-22-717.5111

Telefax : +41-22-717.6135

Emergency telephone : +44-(0)8456-006.640

E-mail address : sds-support@che.dupont.com

Supplier : Du Pont de Nemours (France) S.A.S.
82, rue de Wittelsheim
F-68701 Cernay Cedex

Telephone : +33 3 89 38 38 38

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. | Classification | Concentration [%] |
|-----------------------------------|-------------|-----------|------------------|-------------------|
| Tribenuron methyl | 101200-48-0 | 401-190-1 | R43 N; R50/53 | 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.

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4. FIRST AID MEASURES

- General advice : Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
- 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 : If in eyes, rinse with water for 15 minutes. Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- Ingestion : Obtain medical attention. Do not induce vomiting without medical advice. If victim is conscious: Rinse mouth with water. Drink 1 or 2 glasses of water.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray, Dry chemical, Carbon dioxide (CO₂),
- Extinguishing media which shall 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 : 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 : 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 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.
- Clean-up methods - large spillage Prevent further leakage or spillage. Use

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approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal.

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 : Provide appropriate exhaust ventilation at places where dust is formed. Wear personal protective equipment. For personal protection see section 8.

Use only clean equipment.

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

Storage

Requirements for storage areas and containers : Store in original container. Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

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.

Personal protective equipment

Respiratory protection : Half mask with a particle filter FFP2 (EN149)

Hand protection : Material: Nitrile rubber
Glove thickness: 0,4 - 0,7 mm
Wearing time: 480 min
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses with side-shields conforming to EN166

Skin and body protection : Full protective clothing Type 4 (EN 14605)

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- Hygiene measures : Do not breathe dust or spray mist. Regular cleaning of equipment, work area and clothing. 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 feeding stuffs. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : solid, granular,
- Colour : light brown,
- Odour : mild, sweet,
- pH : 8,0 at 10 g/l (20 °C)
- Flash point : not applicable
- Flammability (solid, gas) : Does not sustain combustion., Method: Directive 67/548/EEC, Annex V, A.10
- Autoignition temperature : , not auto-flammable
- Oxidizing properties : The product has been shown not to be oxidising in a test following Directive 67/548/EEC (Method A17, oxidising properties).
- Explosive properties : Not explosive Method: Directive 67/548/EEC, Annex V, A.14
- Bulk density : 650 kg/m³
- Water solubility : , dispersible

10. STABILITY AND REACTIVITY

- Conditions to avoid : Processing temperature : > 140 °C
- Materials to avoid : No materials to be especially mentioned.
- Hazardous decomposition products : Carbon oxides, nitrogen oxides (NO_x)
- Hazardous reactions : Decomposes slowly on exposure to water. Dust may form explosive mixture in air. 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)

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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)

Skin irritation

- : rabbit
Result: No skin irritation (Data on the product itself)

Eye irritation

- : rabbit
Result: No eye irritation (Data on the product itself)

Sensitisation

- : guinea pig Result: Animal test did not cause sensitization by skin contact. (Data on the product itself)

Mutagenicity assessment

- Tribenuron methyl : Did not show mutagenic effects in animal experiments.

Carcinogenicity assessment

- Tribenuron methyl : Did not show carcinogenic effects in animal experiments.

Toxicity to reproduction assessment

- Tribenuron methyl : Animal testing did not show any effects on fertility., Animal testing did not show any effects on foetal development.

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

Bioaccumulation : This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation 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)

LC50/ 96 h/ Lepomis macrochirus (Bluegill sunfish) :: 340 mg/l
Method: OECD Test Guideline 203
(Data on the product itself)

Toxicity to algae : / EbC50/ 72 h/ Selenastrum capricornutum: 0,06 mg/l
Method: OECD Test Guideline 201
(Data on the product itself)

Toxicity to daphnia : / EC50/ 48 h/ Daphnia magna (Water flea): > 1 000 mg/l
Method: OECD Test Guideline 202
(Data on the product itself)

13. DISPOSAL CONSIDERATIONS

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- 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)

- Further information : Not classified as dangerous in the meaning of sea and air transport regulations., Optional classification as per IMDG Special Provision 909., 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-phrases) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrases) : S 2 Keep out of reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S20/21 When using do not eat, drink or smoke.
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 preparations : To avoid risks to man and the environment, comply with the instructions for use.
- Sensitising components contains:



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Tribenuron methyl
May produce an allergic reaction.

16. OTHER INFORMATION

Text of R-phrases mentioned in Section 2

| | |
|--------|--|
| R36 | Irritating to eyes. |
| R36/38 | Irritating to eyes and skin. |
| R43 | May cause sensitization by skin contact. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Further 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.

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