### SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



# 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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number

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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 Methylnaphthalenesulfonat e	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 (NOx)

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 ℃

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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normally required.

Respiratory protection

: Spray application - indoor: Half mask with a particle filter FFP1 (EN149)

Hand protection

Material: Nitrile rubber

Glove thickness: 0,4 - 0,7 mm

Glove length : Gauntlets

Protection index: Class 6 Wearing time: > 480 min

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it., 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., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., Before removing gloves clean them with soap and water.

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

Skin and body protection

: Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-

2)

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).

Spray application - outdoor: Full protective clothing Type 4 (EN 14605) Rubber

or plastic boots

Spray application - indoor: Full protective clothing Type 4 (EN 14605) Rubber or

plastic boots

Handle in accordance with good industrial hygiene and safety practice. Regular Hygiene measures

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.

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.

### 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 ℃

Oxidizing properties : The product is not oxidizing.

Explosive properties : Not explosive

Bulk density : 730 kg/m3

Water solubility : , dispersible

Viscosity, dynamic : , not applicable

### 10. STABILITY AND REACTIVITY

Conditions to avoid : Processing temperature : > 140 ℃ 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

S57 Use appropriate container to avoid environmental

contamination.

SP<sub>1</sub> 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.

Irritating to eyes and skin. R36/38

May cause sensitization by skin contact. R43

R50 Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment. R53

### **Further information**

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

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

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