

**ACCENT®**

Version 3.4

Revision Date 08.11.2010

Ref.130000000197

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 : ACCENT®

Synonyms : DPX-V9360 75WG
: B10042432

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 [%]
Nicosulfuron	111991-09-4			N; R50/53	75
Alkyl-naphthalenesulfonic acid, sodium salt/formaldehyde polycondensate	68425-94-5			Xi; R36/38	>= 1 - < 5
Sodium tetrapropylenebenzenesulfonate	11067-82-6	234-289-1		Xn; R22 -R38-R41 N; R51/53	>= 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.

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|--------------|---|---|
| Inhalation | : | Move to fresh air. Consult a physician after significant exposure. Artificial 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, Dry chemical, Foam, Carbon dioxide (CO ₂), |
| 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 (CO ₂) 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. Avoid dust formation. Avoid breathing dust. Keep people away from and upwind of spill/leak. 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. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. |
| Methods for cleaning up | : | Clean-up methods - small spillage Sweep up or vacuum up spillage and collect |

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in suitable container for disposal.

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. Provide appropriate exhaust ventilation at places where dust is formed. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. 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 container tightly closed in a dry and well-ventilated place. Store in a place accessible by authorized persons only. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Type Form of exposure	Control parameters	Update	Basis
Sucrose	57-50-1	TWA	10 mg/m ³	1995	ZA REL
		STEL	20 mg/m ³	1995	ZA REL

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Phenol	108-95-2	SKIN_DES		02 2006	EU ELV	
		Can be absorbed through skin.				
		TWA	8 mg/m3 2 ppm		12 2009	EU ELV
		Indicative				
		TWA	19 mg/m3 5 ppm		1995	ZA REL
		STEL	38 mg/m3 10 ppm		1995	ZA REL
		SKIN_DES			1995	ZA REL
		Can be absorbed through skin.				
STEL	16 mg/m3 4 ppm		12 2009	EU ELV		
Indicative						

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: Half mask with a particle filter FFP1 (EN149)

Respiratory protection : Spray application - indoor: Half mask with a particle filter FFP2 (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

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- 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.
- Eye 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).
- Field and greenhouse application: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
- 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.
- 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

- Form : granules,
- Colour : light brown,
- Odour : slight, acrid,
- pH : 4,5 at 10 g/l
- Melting point/range : 141 - 144 °C
- Flash point : not applicable
- Flammability (solid, gas) : Does not sustain combustion.
- Autoignition temperature : , not auto-flammable
- Oxidizing properties : The product is not oxidizing.
- Explosive properties : Not explosive

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Density : 0,53 g/cm³
 Bulk density : 620 kg/m³ , packed
 Water solubility : , dispersible

10. STABILITY AND REACTIVITY

Conditions to avoid : 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 Method: US EPA Test Guideline OPP 81-1
(Data on the product itself)
Information source: Internal study report

Acute inhalation toxicity : LC50/ 4 h / rat : > 5,6 mg/l
Method: US EPA Test Guideline OPP 81-3
(Data on the product itself)
Information source: Internal study report

Acute dermal toxicity : LD50/ rabbit > 2 000 mg/kg
Method: US EPA Test Guideline OPP 81-2
(Data on the product itself)
Information source: Internal study report

Skin irritation : rabbit
Result: No skin irritation Method: US EPA Test Guideline OPP 81-5 (Data on the product itself) Information source: Internal study report

Eye irritation : rabbit
Result: No eye irritation Method: US EPA Test Guideline OPP 81-4 (Data on the product itself) Information source: Internal study report

Sensitisation : Buehler Test guinea pig Result: Animal test did not cause sensitization by skin contact. Method: US EPA Test Guideline OPP 81-6 (Data on the product itself) Information source: Internal study report

Buehler Test guinea pig Result: Animal test did not cause sensitization by skin contact.

Mutagenicity assessment
Nicosulfuron : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Did not cause genetic damage in animals.

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Carcinogenicity assessment

- Nicosulfuron : Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment

- Nicosulfuron : 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 : static test LC50/ 96 h/ Oncorhynchus mykiss (rainbow trout) :: > 100 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report

Toxicity to algae : / ErC50/ 72 h/ Pseudokirchneriella subcapitata (green algae): > 10 mg/l
Method: Directive 67/548/EEC, Annex V, C.3.
(Data on the product itself) Information source: Internal study report

/ ErC50/ 336 h/ Lemna gibba (duckweed): 0,00341 mg/l
Method: US EPA Test Guideline OPPTS 850.4400
(Data on the product itself) Information source: Internal study report

Toxicity to daphnia : static test / EC50/ 48 h/ Daphnia magna (Water flea): > 100 mg/l
Method: OECD Test Guideline 202
(Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

- Nicosulfuron : / NOEC/ 90 d/ Oncorhynchus mykiss (rainbow trout): 24 mg/l

Chronic toxicity to aquatic Invertebrates

- Nicosulfuron : / NOEC/ 21 d/ Daphnia magna (Water flea): 43 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.

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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. (Nicosulfuron)

IMDG

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

Marine pollutant: Marine pollutant

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
	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 S13 S20/21 S35 S46 S57 SP 1	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. If swallowed, seek medical advice immediately and show this container or label. Use appropriate container to avoid environmental contamination. 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.

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

R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, 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.