

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

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 : TALENDO®
 Synonyms : B11640448
 : DPX-KQ926 200EC
 Use of the Substance/Mixture : Fungicide

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2. HAZARDS IDENTIFICATION

Limited evidence of a carcinogenic effect.
 Irritating to skin.
 Risk of serious damage to eyes.
 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 [%]
Proquinazid	189278-12-4			Carc.Cat.3; R40 N; R50/53	20,5
Fatty Acids, C6-12, methylester	67762-39-4	267-017-5		R10 Xi; R36/38	>= 65 - <= 70
Calcium dodecylbenzenesulfonate	26264-06-2	247-557-8		Xi; R38 -R41	1 - < 5
2-Ethylhexan-1-ol	104-76-7	203-234-3		Xi; R36/38	1 - < 5

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

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. Call a poison control center or doctor for treatment advice. Oxygen or artificial respiration if needed.
- 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 eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- Ingestion : Call a physician or poison control centre immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water. Drink 1 or 2 glasses of water.

Notes to physician

- Risks : Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray, Foam, Carbon dioxide (CO₂), Dry chemical,
- 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 : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- 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. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate spill area. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

- and 8.
- Environmental precautions : Use appropriate container to avoid environmental contamination. Prevent further leakage or spillage if safe to do so. 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 Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal.
- Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material 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 : Use only according to our recommendations. Wear personal protective equipment. Use only clean equipment. Provide adequate ventilation. Do not breathe vapours or spray mist. When opening containers, avoid breathing vapours that may be emanating. 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. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle. Avoid exceeding of the given occupational exposure limits (see section 8). For personal protection see section 8.
- Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

Storage

- Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Keep locked up. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. 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.

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering measures**

Ensure adequate ventilation, especially in confined areas. Since the mixture includes an organic solvent, electrical equipment must be explosion-proof and free from ignition sources such as static electricity and sparks. Use sufficient ventilation to keep employee exposure below recommended limits. Contains no substances with occupational exposure limit values.

Personal protective equipment

- | | | |
|--------------------------|---|---|
| Respiratory protection | : | Manufacturing and processing work: Half mask with vapour filter A1 (EN 141) |
| Respiratory protection | : | Mixer and loaders must wear: Half mask with vapour filter A1 (EN 141) |
| Respiratory protection | : | Spray application - outdoor: Half mask with a particle filter FFP1 (EN149) |
| 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. |
| Eye protection | : | Safety glasses with side-shields conforming to EN166 |
| Skin and body protection | : | Manufacturing and processing work: Full protective clothing Type 6 (EN 13034)

Mixer and loaders must wear: Full protective clothing Type 6 (EN 13034)
Rubber apron Rubber or plastic boots

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 |
| 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 before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Remove clothing/PPE immediately if material gets inside. For environmental protection remove and wash all contaminated |

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

protective equipment before re-use. 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 : liquid,

Colour : brown,

Odour : sweet, ester-like,

pH : 6,2 at 10 g/l (20 °C)

Boiling point/boiling range : Not available for this mixture.

Flash point : 74 °C

Autoignition temperature : 285 °C

Oxidizing properties : The product is not oxidizing.

Explosive properties : Not explosive

Relative density : 0,9758

Water solubility : , emulsifiable

Viscosity, kinematic : 3,79 mm²/sat 20 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : To avoid thermal decomposition, do not overheat. Protect from frost.

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: > 2 000 mg/kg Method: Fixed Dose Method
(Data on the product itself)
Information source: Internal study report

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

Acute inhalation toxicity	
• Proquinazid	: LC50/ 4 h/ rat : > 5,2 mg/l
Acute dermal toxicity	: LD50/ rat > 5 000 mg/kg Method: OECD Test Guideline 402 (Data on the product itself) Information source: Internal study report
Skin irritation	: rabbit Result: Irritating to skin. Method: OECD Test Guideline 404 (Data on the product itself) Information source: Internal study report
Eye irritation	: rabbit Result: Severe eye irritation Method: OECD Test Guideline 405 (Data on the product itself) Information source: Internal study report
Sensitisation	: Maximisation Test guinea pig Result: Animal test did not cause sensitization by skin contact. Method: US EPA Test Guideline OPPTS 870.2600 (Data on the product itself) Information source: Internal study report
Mutagenicity assessment	
Proquinazid	: Did not show mutagenic effects in animal experiments., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Carcinogenicity assessment	
• Proquinazid	: Carcinogenic Category 3, Limited evidence of a carcinogenic effect., Animal experiments showed a statistically significant number of tumours.
Toxicity to reproduction assessment	
• Proquinazid	: Animal testing did not show any effects on fertility.

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) :: 2,3 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: 1,4 mg/l Method: OECD Test Guideline 201 (Data on the product itself) Information source: Internal study report
Toxicity to daphnia	: static test / EC50/ 48 h/ Daphnia: 1,8 mg/l Method: OECD Test Guideline 202 (Data on the product itself) Information source: Internal study report

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

Chronic toxicity to fish

- Proquinazid : Early Life-Stage/ NOEC/ Oncorhynchus mykiss (rainbow trout): 0,0030 mg/l
Method:

Chronic toxicity to aquatic Invertebrates

- Proquinazid : / NOEC/ Daphnia magna (Water flea): 0,0018 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: M6
HI No.: 90
UN number: 3082
Labelling No.: 9
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Proquinazid)

IMDG

Class: 9
Packaging group: III
UN number: 3082
Labelling No.: 9
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Proquinazid)

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) : Xn Harmful
N Dangerous for the environment

**TALENDO®**

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

Hazardous components:	Proquinazid	
R-phrases(s)	: R40 R38 R41 R51/53	Limited evidence of a carcinogenic effect. Irritating to skin. Risk of serious damage to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	: S 2 S13 S20/21 S26 S35 S36/37/39 SP 1 S46 S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of in a safe way. Wear suitable protective clothing, gloves and eye/face protection. 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). If swallowed, seek medical advice immediately and show this container or label. Use appropriate container to avoid environmental contamination.
Special labelling of certain mixtures	: To avoid risks to man and the environment, comply with the instructions for use.	

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

R10	Flammable.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R50/53	Very 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,



TALENDO®

Version 4.2

Revision Date 15.11.2010

Ref.130000000506

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.