

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**Product name : **DIVIDEND 030 FS**

Design code : A9142L

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse : Fungicide
Seed treatment**1.3 Details of the supplier of the safety data sheet**Company : Syngenta Crop Protection AG
Postfach
CH-4002 Basel
Switzerland

Telephone : +41 61 323 11 11

Telefax : +41 61 323 12 12

E-mail address : sds.ch@syngenta.com

1.4 Emergency telephone number**Emergency tele-
phone number** : +44 1484 538444**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008

Skin sensitization	Category 1	H317
Chronic aquatic toxicity	Category 2	H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

N, Dangerous for the environment

Xi, Irritant

R43: May cause sensitization by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

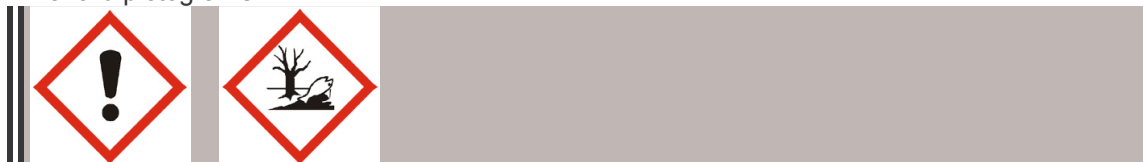
Revision Date 03.11.2011

Print Date 03.11.2011

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



Signal word	:	Warning	
Hazard statements	:	H317 H411	May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 P270 P280 P302 + P352 P391 P501	Keep out of reach of children. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing. IF ON SKIN: Wash with plenty of soap and water. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.
Supplemental information	:	EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Hazardous components which must be listed on the label:

- 1,2-benzisothiazol-3(2H)-one

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)



**Dangerous
for the envi-
ronment**



Irritant

R-phrases(s)	:	R43 R51/53	May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

S-phrase(s)	: S 2 S13 S20/21 S35 S36/37 S57	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. Wear suitable protective clothing and gloves. Use appropriate container to avoid environmental contamination.
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Additional Labelling : To avoid risks to man and the environment, comply with the instructions for use.

Hazardous components which must be listed on the label:

- 1,2-benzisothiazol-3(2H)-one

2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
poly(oxy-1,2-ethanediyl), alpha-9-octadecenyl-omega-hydroxy-, (Z)-	9004-98-2	Xn R22 R41	Acute Tox.4; H302 Eye Dam.1; H318	5 - 10 % WW
propane-1,2-diol	57-55-6 200-338-0	-	-	5 - 10 % WW
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[tris(1-phenyl)phenyl]phenoxy]-, ammonium salt	119432-41-6 137672-70-9	Xi R41 R52/53	Eye Dam.1; H318 Aquatic Chronic3; H412	1 - 5 % WW
difenoconazole	119446-68-3	Xn, N R22 R50/53	Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	2.8 % WW
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9	N, Xn R22 R38 R41 R43 R50	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Acute1; H400	0.05 - 1 % WW

Substances for which there are Community workplace exposure limits.

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

SECTION 4. FIRST AID MEASURES**4.1 Description of first aid measures**

- General advice : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control centre immediately.
- Skin contact : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Medical advice : There is no specific antidote available.
Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media**

Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray

Do not use a solid water stream as it may scatter and spread fire.

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

If the product contaminates rivers and lakes or drains inform respective authorities.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

Refer to disposal considerations listed in section 13.

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required.
 Avoid contact with skin and eyes.
 When using do not eat, drink or smoke.
 For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required.
 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.

7.3 Specific end uses

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
difenoconazole	8 mg/m ³	8 h TWA	SYNGENTA
propane-1,2-diol	10 mg/m ³ (Particulates) 150 ppm, 470 mg/m ³ (Total (vapour & particulates))	8 h TWA 8 h TWA	UK HSE UK HSE

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

Engineering measures : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.
 The extent of these protection measures depends on the actual risks in use.
 If airborne mists or vapors are generated, use local exhaust ventilation controls.
 Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.
 Where necessary, seek additional occupational hygiene advice.

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.
 When selecting personal protective equipment, seek appropriate professional advice.
 Personal protective equipment should be certified to appropriate stan-

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

- dards.
- Respiratory protection : No personal respiratory protective equipment normally required.
A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection : Chemical resistant gloves should be used.
Gloves should be certified to an appropriate standard.
Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure.
The breakthrough time of gloves varies according to the thickness, material and manufacturer.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Suitable material
Nitrile rubber
- Eye protection : Eye protection is not usually required.
Follow any site specific eye protection policies.
- Skin and body protection : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material.
Wash with soap and water after removing protective clothing.
Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.)
Wear as appropriate:
impervious protective suit

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Form : liquid
- Colour : light red to dark red
- Odour : no data available
- Odour Threshold : no data available
- pH : 5 - 9 at 1 % w/v
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : > 100 °C at 101.3 kPa Pensky-Martens c.c.
- Evaporation rate : no data available
- Flammability (solid, gas) : no data available
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Vapour pressure : no data available
- Relative vapour density : no data available
- Density : 1.055 g/cm³ at 20 °C
- Solubility in other solvents : no data available
- Partition coefficient:
n-octanol/water : no data available
- Autoignition temperature : 445 °C
- Thermal decomposition : no data available
- Viscosity, dynamic : 65 - 1,377 mPa.s at 40 °C

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

Viscosity, kinematic : 76 - 1,570 mPa.s at 20 °C
: no data available
Explosive properties : Not explosive
Oxidizing properties : not oxidizing

9.2 Other information

Miscibility : Miscible
Surface tension : 33.7 mN/m at 20 °C

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

None known.
Hazardous polymerisation does not occur.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute oral toxicity : LD50 female rat, > 2,000 mg/kg

Acute inhalation toxicity
difenoconazole : LC50 rat, > 3,300 mg/m³, 4 h

Acute dermal toxicity : LD50 male and female rat, > 2,000 mg/kg

Skin corrosion/irritation : rabbit: Mildly irritating

Serious eye damage/eye
irritation : rabbit: Non-irritatingRespiratory or skin sensiti-
zation : man: Likely to cause skin sensitization.
Derived from components.

Germ cell mutagenicity

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

difenoconazole : Did not show mutagenic effects in animal experiments.

Carcinogenicity

difenoconazole : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

difenoconazole : Did not show reproductive toxicity effects in animal experiments.

STOT - repeated exposure

difenoconazole : No adverse effect has been observed in chronic toxicity tests.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout), 13 mg/l , 96 hToxicity to aquatic invertebrates : EC50 *Daphnia magna* (Water flea), 8.8 mg/l , 48 hToxicity to aquatic plants : EbC50 *Pseudokirchneriella subcapitata* (green algae), 7.3 mg/l , 72 h: ErC50 *Pseudokirchneriella subcapitata* (green algae), 16 mg/l , 72 h**12.2 Persistence and degradability****Stability in water**difenoconazole : Degradation half life: 1 d
Not persistent in water**Stability in soil**difenoconazole : Degradation half life: 149 - 187 d
Not persistent in soil.**12.3 Bioaccumulative potential**

difenoconazole : Difenoconazole has high potential to bioaccumulate.

12.4 Mobility in soil

difenoconazole : Low mobility in soil.

12.5 Results of PBT and vPvB assessmentdifenoconazole : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).**12.6 Other adverse effects**

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

None known.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

- Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**Land transport (ADR/RID)**

- 14.1 UN number: UN 3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE)
14.3 Transport hazard class(es): 9
14.4 Packing group: III
Labels: 9
14.5 Environmental hazards : Environmentally hazardous

Sea transport(IMDG)

- 14.1 UN number: UN 3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE)
14.3 Transport hazard class(es): 9
14.4 Packing group: III
Labels: 9
14.5 Environmental hazards : Marine pollutant

Air transport (IATA-DGR)

- 14.1 UN number: UN 3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIFENOCONAZOLE)
14.3 Transport hazard class(es): 9
14.4 Packing group: III
Labels: 9

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

14.6 Special precautions for user

none

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

GHS-Labeling

Hazard pictograms



Signal word	:	Warning	
Hazard statements	:	H317 H411	May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 P270 P280 P302 + P352 P391 P501	Keep out of reach of children. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing. IF ON SKIN: Wash with plenty of soap and water. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.
Supplemental information	:	EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
Remarks	:	Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.	

Hazardous components which must be listed on the label:

- 1,2-benzisothiazol-3(2H)-one

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Further information

DIVIDEND 030 FS

Version 2 - This version replaces all previous versions.

Revision Date 03.11.2011

Print Date 03.11.2011

Full text of R-phrases referred to under sections 2 and 3:

R22	Harmful if swallowed.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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