

SAFETY DATA SHEET
EU Regulation No. 1907/2006,
Annex II

Page : 1

Revised edition no : 6

Date : 29 / 3 / 2012

Supersedes : 11 / 3 / 2010

DIVINO 250 EC

R-21543

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : DIVINO 250 EC
Chemical formula : Difenoconazole : C₁₉H₁₇Cl₂N₃O₃

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Fungicide
Uses advised against : None under normal conditions.

1.3. Details of the supplier of the safety data sheet

ADAMA SOUTH AFRICA (PTY) LTD
21 Viben Street
Brackenfell 7560
Email : msds@mcw.co.il

1.4. Emergency telephone number

+27 82 331 6463
+27 21 982 1460

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Classification 67/548/EEC (DSD) - 1999/45/EC (DPD)

: Xn; R65
Xi; R36
N; R50-53

2.2. Label elements

Labelling 1999/45/EC (DPD)

Symbol(s)



: Xn : Harmful.
N : Dangerous for the environment.

R Phrase(s)

: R36 - Irritating to eyes.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 - Harmful : may cause lung damage if swallowed.

S Phrase(s)

: S02 - 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.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62 - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

2.3. Other hazards

Other hazards : None under normal conditions.

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SECTION 3. Composition/information on ingredients

Components

: This product is considered to be hazardous and contains hazardous components.

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Difenoconazole	: 250 g/l	119446-68-3	----	----	----	Not classified (DSD/DPD) Not classified (GHS)
Solvesso 200	: > 10 %	64742-94-5	265-198-5	649-424-00-3	----	Xn; R65 Asp. Tox 1 - H304
C11 Alcohol ethoxylate, 5EO	: < 6 %	34398-01-1	500-084-3	----	----	Xi; R41 Eye Dam 1 - H318
CaABS/alkylaryl sulfonate	: < 5 %	----	----	----	----	Xi; R38-41 Eye Dam 1 - H318 Skin Irrit. 2 - H315

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid measures

Inhalation

: Remove victim to fresh air. Seek medical advice.

Skin contact

: Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Seek medical attention if ill effect develops.

Eye contact

: Wash out with plenty of water with the eyelid held wide open Immediately get medical attention.

Ingestion

: Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

: Not available

4.3. Indication of any immediate medical attention and special treatment needed

Note to physician

: No specific antidote known. Treat symptomatically and give supportive therapy.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

: For small fire : Carbon dioxide , dry chemical .
For large fire: Water spray , water fog , foam .

5.2. Special hazards arising from the substance or mixture

Specific hazards

: Thermal decomposition may generate : Carbon monoxide , carbon dioxide , nitrogen oxides , chlorides .

5.3. Advice for fire-fighters

Protection against fire

: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

Special procedures

: Exercise caution when fighting any chemical fire.
Dike fire control water for later disposal.

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Use appropriate protection (see section 8).

6.2. Environmental precautions

Environmental precautions : Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities.

6.3. Methods and material for containment and cleaning up

Clean up methods : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

: See section 8

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling : Avoid ingestion, skin and eye contact. Prevent entry to sewers and public waters. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep away from food, drink and animal feeding stuffs. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame. Keep in original containers.

7.3. Specific end use(s)

: Not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

TLV[©] -TWA [mg/m³] : Difenconazole : Not established

8.2. Exposure controls

Exposure controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash clothing before re-using. Wash hands thoroughly after handling.

- Respiratory protection : During spraying wear suitable respiratory equipment.
- Hand protection : Wear suitable gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Chemical goggles or face shield.
- Others : When using, do not eat, drink or smoke.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance :
Physical state at 20 °C : Liquid
Colour : Clear Yellowish
Odour : Not available
Odour threshold : Not available
pH : 4.0 - 7.0
Melting point / Freezing point : Not available
Initial boiling point - boiling range : Not available
Flash point : > 100

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SECTION 9. Physical and chemical properties (continued)

Evaporation rate	: Not available
Flammability	: Not flammable
Explosion limits (lower - upper)	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: 1.07 - 1.09 mg/l
Solubility	: Not available
Partition coefficient : n-octanol / water	: Difenoconazole : 4.4 (25°C)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive Properties	: Not available
Oxidising properties	: Not available

9.2. Other information

	: Not available
Molecular weight	: Difenoconazole : 406.3

SECTION 10. Stability and reactivity

10.1. Reactivity

: Not available

10.2. Chemical stability

Chemical stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization will not occur.
Reacts with : Strong acids , strong bases .

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight , sources of heat , open flame . Decomposes upon heating.

10.5. Incompatible materials

Incompatible materials : Not available

10.6. Hazardous decomposition products

Hazardous decomposition products : Thermal decomposition may generate : Carbon monoxide , carbon dioxide , nitrogen oxides , chlorides .

SECTION 11. Toxicological information

11.1. Information on toxicological effects

- Acute toxicity
 - Oral, Rat LD50 (mg/kg) : > 2000
 - Dermal, Rat LD50 [mg/kg] : > 2000
 - Inhalation, Rat LC50 [mg/l/4h] : > 1.75
- Skin corrosion/irritation : Mildly irritating
- Serious eye damage/irritation : Moderately irritating
- Respiratory or skin sensitisation : Non sensitizer
- Germ cell mutagenicity : Not mutagenic
- Carcinogenicity : Not carcinogenic

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SECTION 11. Toxicological information (continued)

- Reproductive toxicity : Not considered to be toxic for the reproductive system.
- STOT-single exposure : Not available
- STOT-repeated exposure : Not available
- Aspiration hazard : Not available

SECTION 12. Ecological information

12.1. Toxicity

Acute toxicity

- 96 H-LC50 - Rainbow trout [mg/l] : 0.39
- Bees LD50 [µg] : > 100
- LD50 Birds [mg/kg] : > 2000 (for the technical material)

Long-term exposure

: Not available

12.2. Persistence - degradability

: Not available

12.3. Bioaccumulative potential

: Not available

12.4. Mobility in soil

: Not available

12.5. Results of PBT and vPvB assessment

: Not available

12.6. Other adverse effects

: None known.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

- General : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

14.1. UN number

UN N° : 3082

Hazard Label(s)



- 9 : Miscellaneous dangerous substances and articles.
- 9 : Miscellaneous dangerous substances and articles.

14.2. UN proper shipping name

- Land transport - ADR/RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (250 g/l Difenconazole)
- Sea transport - IMO-IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (250 g/l Difenconazole)

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SECTION 14. Transport information (continued)

• Air transport - ICAO/IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (250 g/l Difenconazole)

14.3. Transport hazard class(es)

• Land transport - ADR/RID : 9
• Sea transport - IMO-IMDG : 9
• Air transport - ICAO/IATA : 9

14.4. Packing group

• Land transport - ADR/RID : III
• Sea transport - IMO-IMDG : III
• Air transport - ICAO/IATA : III

14.5. Environmental hazards

- IMDG-Marine pollution : Marine pollutant - Polluant marin

14.6. Special precautions for user

: See transport documents.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

: Not applicable.

SECTION 15. Regulatory information

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

: Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

: Not applicable

SECTION 16. Other information

List of relevant R phrases (heading 3) : R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R65 - Harmful : may cause lung damage if swallowed.

List of relevant H phrases (Section 3) : H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.

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Recommended uses and restrictions : Fungicide
None.

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