according to Regulation (EC) No. 1907/2006



## **MIRAVIS DUO 200 SC**

Version Revision Date: 2.0 29.04.2019

SDS Number: S00054987101

This version replaces all previous versions.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : MIRAVIS DUO 200 SC

Design code : A20259G

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

Use of the : Fungicide

Substance/Mixture

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 of person

responsible for the SDS

: sds.ch@syngenta.com

1.4 Emergency telephone number

**Emergency telephone** 

number

: +44 1484 538444

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Short-term (acute) aquatic hazard,

H400: Very toxic to aquatic life.

Category 1

Long-term (chronic) aquatic hazard,

H410: Very toxic to aquatic life with long lasting

Category 1

effects.

according to Regulation (EC) No. 1907/2006



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#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

¥2>

Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard : EUH208 Contains 1,2-benzisothiazol-3-one.

Statements May produce an allergic reaction.

EUH401 To avoid risks to human health and the

environment, comply with the instructions for use.

Precautionary statements : Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

| Chemical name  | CAS-No. EC-No. Index-No. Registration number | Classification  | Concentration<br>(% w/w) |
|----------------|--|---|--------------------------|
| difenoconazole | 119446-68-3                                  | Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 | >= 10 - < 20             |
| pydiflumetofen | 1228284-64-7                                 | Aquatic Acute 1;<br>H400  | >= 2.5 - < 10            |

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|                              |  | Aquatic Chronic 1;<br>H410<br>M-Factor (Acute<br>aquatic toxicity): 1<br>M-Factor (Chronic<br>aquatic toxicity): 1  |                      |
|------------------------------|--|---|----------------------|
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5<br>220-120-9<br>613-088-00-6 | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Aquatic Acute 1;<br>H400   | >= 0.025 - <<br>0.05 |
| bronopol (INN)               | 52-51-7<br>200-143-0<br>603-085-00-8   | Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 | >= 0.025 - <<br>0.1  |

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : 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.

In case of 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.

In case of 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.

If swallowed : If swallowed, seek medical advice immediately and show this

according to Regulation (EC) No. 1907/2006



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container or label.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Nonspecific

No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : There is no specific antidote available.

Treat symptomatically.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable 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

Unsuitable extinguishing

media

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

fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

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

Special protective equipment:

for firefighters

Wear full protective clothing and self-contained breathing

apparatus.

Further information : 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

Personal precautions : Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

according to Regulation (EC) No. 1907/2006



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

#### 6.3 Methods and material for containment and cleaning up

Methods for 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). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

#### 6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

#### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on 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

Requirements for storage areas and containers

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 use(s)

Specific use(s) : 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

### **Occupational Exposure Limits**

| Components     | CAS-No.          | Value type (Form | Control parameters | Basis    |
|----------------|------------------|------------------|--------------------|----------|
|                |                  | of exposure)     |                    |          |
| difenoconazole | 119446-68-       | TWA              | 5 mg/m3            | Syngenta |
| pydiflumetofen | 1228284-<br>64-7 | TWA              | 5 mg/m3            | Syngenta |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health | Value |
|----------------|---------|-----------------|------------------|-------|
|                |         |                 | effects          |       |

according to Regulation (EC) No. 1907/2006



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propane-1,2-diol Workers Inhalation Long-term systemic 168 mg/m3 effects Consumers Inhalation Long-term local 10 mg/m3 effects Consumers Inhalation Long-term systemic 30 mg/m3 effects Workers Long-term local 10 mg/m3 Inhalation

effects

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name   | Environmental Compartment | Value      |
|------------------|---------------------------|------------|
| propane-1,2-diol | Fresh water               | 260 mg/l   |
|                  | Marine water              | 26 mg/l    |
|                  | Intermittent use/release  | 183 mg/l   |
|                  | Sewage treatment plant    | 20000 mg/l |
|                  | Marine sediment           | 57.2 mg/kg |
|                  | Fresh water sediment      | 572 mg/kg  |
|                  | Soil                      | 50 mg/kg   |

#### 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.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection

Remarks : No special protective equipment required.

Skin and body protection : No special protective equipment required.

Select skin and body protection based on the physical job

requirements.

Respiratory protection : No personal respiratory protective equipment normally

required.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

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.

according to Regulation (EC) No. 1907/2006



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### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : white

Odour : No data available

Odour Threshold : No data available

pH : 6-8

Concentration: 1 % w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Method: Seta closed cup

does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.09 g/cm3 (20 °C)

Solubility(ies)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : > 650 °C

Decomposition temperature : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

according to Regulation (EC) No. 1907/2006



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#### 9.2 Other information

No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None reasonably foreseeable.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known.

#### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Information on likely routes of:

exposure

Ingestion
Inhalation
Skin contact
Eve contact

### **Acute toxicity**

#### **Product:**

Acute oral toxicity : LD50 (Rat, female): estimated 5,000 mg/kg

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.43 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Remarks: Highest attainable concentration Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Remarks: Based on data from similar materials

according to Regulation (EC) No. 1907/2006



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Ш

**Components:** 

difenoconazole:

Acute oral toxicity : LD50 (Rat, male and female): 1,453 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 3,300 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,010 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

pydiflumetofen:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.11 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

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

Acute oral toxicity : LD50 (Rat): 1,020 mg/kg

bronopol (INN):

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after

single contact with skin.

Skin corrosion/irritation

**Product:** 

Species : Rabbit

Result : No skin irritation

Remarks : Based on data from similar materials

**Components:** 

difenoconazole:

Species : Rabbit

according to Regulation (EC) No. 1907/2006



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Result : No skin irritation

pydiflumetofen:

Species : Rabbit

Result : No skin irritation

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

Result : Irritating to skin.

bronopol (INN):

Result : Irritating to skin.

#### Serious eye damage/eye irritation

**Product:** 

Species : Rabbit

Result : No eye irritation

Remarks : Based on data from similar materials

**Components:** 

difenoconazole:

Species : Rabbit

Result : Irritation to eyes, reversing within 7 days

pydiflumetofen:

Species : Rabbit

Result : No eye irritation

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

Result : Risk of serious damage to eyes.

bronopol (INN):

Result : Risk of serious damage to eyes.

### Respiratory or skin sensitisation

**Product:** 

Test Type : mouse lymphoma cells

Species : Mouse

Result : Did not cause sensitisation on laboratory animals.

Remarks : Based on data from similar materials

**Components:** 

difenoconazole:

Species : Guinea pig

according to Regulation (EC) No. 1907/2006



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Result : Did not cause sensitisation on laboratory animals.

pydiflumetofen:

Test Type : mouse lymphoma cells

Species : Mouse

Result : Did not cause sensitisation on laboratory animals.

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

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

**Components:** 

difenoconazole:

Germ cell mutagenicity-

Assessment

: Animal testing did not show any mutagenic effects.

pydiflumetofen:

Germ cell mutagenicity-

Assessment

Animal testing did not show any mutagenic effects.

Carcinogenicity

**Components:** 

difenoconazole:

Carcinogenicity - Assessment

: Weight of evidence does not support classification as a carcinogen, In a two-year feeding study of mice, an oncogenic effect was seen in the livers of males and females., The observed tumors do not appear to be relevant for men.

pydiflumetofen:

Carcinogenicity - Assessment

: Liver tumours noted in mice that are not relevant to humans.

Reproductive toxicity

**Components:** 

difenoconazole:

Reproductive toxicity -

: No toxicity to reproduction

Assessment

pydiflumetofen:

Reproductive toxicity -

Assessment

: No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

according to Regulation (EC) No. 1907/2006



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STOT - single exposure

**Components:** 

bronopol (INN):

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with respiratory tract

irritation.

Repeated dose toxicity

**Components:** 

difenoconazole:

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

**SECTION 12: Ecological information** 

12.1 Toxicity

**Components:** 

difenoconazole:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Americamysis): 0.15 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Navicula pelliculosa (Freshwater diatom)): 0.091 mg/l

Exposure time: 72 h

NOEC (Navicula pelliculosa (Freshwater diatom)): 0.053 mg/l

Exposure time: 72 h

NOEC (Desmodesmus subspicatus (green algae)): 0.0086

mg/l

Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

: 10

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

Exposure time: 3 h

Toxicity to fish (Chronic

toxicity)

NOEC: 0.0076 mg/l Exposure time: 34 d

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other :

aquatic invertebrates

NOEC: 0.0056 mg/l Exposure time: 21 d

(Chronic toxicity) Species: Daphnia magna (Water flea)

according to Regulation (EC) No. 1907/2006



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NOEC: 0.0046 mg/l Exposure time: 28 d Species: Americamysis

M-Factor (Chronic aquatic

toxicity)

10

pydiflumetofen:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.18 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Americamysis): 0.16 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 5.9

mg/l

Exposure time: 96 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.093

mg/l

End point: Growth rate Exposure time: 96 h

M-Factor (Acute aquatic

toxicity)

1

Toxicity to fish (Chronic

toxicity)

: NOEC: 0.025 mg/l Exposure time: 32 d

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

NOEC: 0.042 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic

toxicity)

1

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

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

bronopol (INN):

Toxicity to algae/aquatic

plants

NOEC (algae): 0.0025 mg/l

Exposure time: 72 h

EC50 (algae): 0.068 mg/l Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

10

according to Regulation (EC) No. 1907/2006



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:

M-Factor (Chronic aquatic

toxicity)

1

### 12.2 Persistence and degradability

**Components:** 

difenoconazole:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 1 d

Remarks: Product is not persistent.

pydiflumetofen:

Biodegradability : Result: Not readily biodegradable.

bronopol (INN):

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

**Components:** 

difenoconazole:

Bioaccumulation : Remarks: High bioaccumulation potential.

Partition coefficient: n-

octanol/water

log Pow: 4.4 (25 °C)

pydiflumetofen:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 3.8 (25 °C)

12.4 Mobility in soil

**Components:** 

difenoconazole:

Distribution among

environmental compartments

Remarks: Low mobility in soil.

Stability in soil : Dissipation time: 149 - 187 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

according to Regulation (EC) No. 1907/2006



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pydiflumetofen:

Distribution among

Remarks: No data available

environmental compartments

#### 12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

**Components:** 

difenoconazole:

Assessment : This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating

(vPvB)..

pydiflumetofen:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

No data available

#### **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.

according to Regulation (EC) No. 1907/2006



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### **SECTION 14: Transport information**

#### 14.1 UN number

ADN : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DIFENOCONAZOLE AND PYDIFLUMETOFEN)

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DIFENOCONAZOLE AND PYDIFLUMETOFEN)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DIFENOCONAZOLE AND PYDIFLUMETOFEN)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DIFENOCONAZOLE AND PYDIFLUMETOFEN)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(DIFENOCONAZOLE AND PYDIFLUMETOFEN)

### 14.3 Transport hazard class(es)

 ADN
 : 9

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

#### 14.4 Packing group

ADN

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

**ADR** 

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

according to Regulation (EC) No. 1907/2006



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**RID** 

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

**IMDG** 

Packing group : III Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

**ADN** 

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006



### **MIRAVIS DUO 200 SC**

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SDS Number: S00054987101 This version replaces all previous versions.

Not applicable

Not applicable

Not applicable

Not applicable

### **SECTION 15: Regulatory information**

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

Regulation (EC) No 649/2012 of the European

Parliament and the Council concerning the export and

import of dangerous chemicals

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic

pollutants

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances, preparations and articles (Annex XVII)

following entries should be considered:

Conditions of restriction for the

Number on list 3

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

major-accident hazards involving dangerous substances.

Quantity 1 Quantity 2

E1 **ENVIRONMENTAL** 100 t 200 t

**HAZARDS** 

#### Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H302 Harmful if swallowed. H312 Harmful in contact with skin.

Causes skin irritation. H315

H317 May cause an allergic skin reaction.

Causes serious eye damage. H318 Causes serious eye irritation. H319 H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

according to Regulation (EC) No. 1907/2006



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H410 : Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

#### Classification of the mixture:

#### Classification procedure:

Aquatic Acute 1 H400 Calculation method
Aquatic Chronic 1 H410 Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

according to Regulation (EC) No. 1907/2006



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