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

1.1 Product identifier

Trade name : Dimilin Flo

Product code : 000060001229

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

Use of the Substance/Mixture : Insecticide, Acaricide

Recommended restrictions on use : Agriculture, For professional users only.

1.3 Details of the supplier of the safety data sheet

Company : Arysta LifeScience Great Britain Ltd.
Brooklands Farm, Cheltenham Road
Evesham, Worcestershire
United Kingdom
WR11 2LS
Telephone: +44 1386 425500

Prepared by : sds.request@arysta.com

Further information for the safety data sheet : sds.request@arysta.com

1.4 Emergency telephone number

Emergency telephone number : +44 (0) 1235 239 670 (NCEC)
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.
2.2 Label elements

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

- **Signal word**: Warning
- **Hazard pictograms**: 
- **Hazard statements**: H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**:
  - **Prevention**: P273 Avoid release to the environment.
  - **Response**: P391 Collect spillage.
  - **Disposal**: P501 Dispose of contents/container to an approved waste disposal plant.
- **Supplemental Hazard Statements**: EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Additional Labelling**: EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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

- **Chemical nature**: Insecticide

#### Hazardous components

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<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
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<td>252-529-3</td>
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SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact: If eye irritation persists, consult a specialist.

If swallowed: Rinse mouth with water. If victim is fully conscious, give a cupful of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not give milk or alcoholic beverages.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses. Burning produces irritant fumes. Burning produces noxious and toxic fumes.

5.3 Advice for firefighters

Special protective equipment: Wear full protective clothing and self-contained breathing ap-
for firefighters apparatus.

Further information : 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions : Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.

6.2 Environmental precautions
Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment.

6.3 Methods and material for containment and cleaning up
Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling : For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of work-day.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)
Specific use(s) : Insecticide

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment
Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection
Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : suspension, liquid
Colour : off-white
Odour : Do not attempt to smell the product as it is hazardous.
Odour Threshold : No data available
pH : 6 - 10
Freezing point : No data available
Boiling point/boiling range : 108 °C
Flash point : > 107 °C
Method: EEC A.9
Density : 1.190 g/cm3 (20 °C)

Solubility(ies)
Water solubility : dispersible

Auto-ignition temperature : No data available

Viscosity
Viscosity, dynamic : 154 mPa.s (20 °C)
9.2 Other information

Surface tension : 51.5 mN/m

Oxidizing potential : No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
                      No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
                        GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.09 mg/l
                           Exposure time: 4 h
                           Test atmosphere: dust/mist
                           Method: OECD Test Guideline 403
                           GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
                        Method: OECD Test Guideline 402
                        GLP: yes

Components:

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

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
                     Method: Converted acute toxicity point estimate

Acute inhalation toxicity : LC50 (Rat): 0.5 mg/l
Exposure time: 4 h  
Test atmosphere: dust/mist  

Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg  

Skin corrosion/irritation  
**Product:**  
Species: Rabbit  
Assessment: No skin irritation  
GLP: yes  
Remarks: Not classified due to lack of data.

Serious eye damage/eye irritation  
**Product:**  
Species: Rabbit  
Assessment: No eye irritation  
Remarks: Not classified due to lack of data.

Respiratory or skin sensitisation  
**Product:**  
Species: Guinea pig  
Assessment: Did not cause sensitisation on laboratory animals.  
GLP: yes  
Remarks: No data available  
Test Type: LLNA  
Species: Mouse  
Assessment: Non sensitizing.  
Method: OECD Test Guideline 429  
GLP: yes  

Germ cell mutagenicity  
**Product:**  
Germ cell mutagenicity - Assessment: Based on available data, the classification criteria are not met.  

Carcinogenicity  
**Product:**  
Carcinogenicity - Assessment: Based on available data, the classification criteria are not met.
Reproductive toxicity

Product:
Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

STOT - single exposure

Product:
Assessment: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:
Assessment: Based on available data, the classification criteria are not met.

Further information

Product:
Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:
Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0026 mg a.s./L
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0.11 mg/l
Exposure time: 72 h
EC50 (Pseudokirchneriella subcapitata (algae)): 0.067 mg/l
Exposure time: 72 h

Components:
1,2-benzisothiazol-3(2H)-one:
Toxicity to fish : LC50 (Onchorhynchus mykiss (rainbow trout)): 1.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.94 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0.11 mg/l
Exposure time: 72 h
EC50 (Pseudokirchneriella subcapitata (algae)): 0.067 mg/l
Exposure time: 72 h

Toxicity to bacteria : EC20 (activated sludge): 3.3 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
12.2 Persistence and degradability

**Product:**
- Biodegradability: Remarks: No data available

12.3 Bioaccumulative potential

**Product:**
- Bioaccumulation: Remarks: No data available

**Components:**
1,2-benzisothiazol-3(2H)-one:
- Bioaccumulation: Species: Fish
  Bioconcentration factor (BCF): 6.94
- Partition coefficient: n-octanol/water: log Pow: 0.75

12.4 Mobility in soil

**Product:**
- Mobility: Remarks: No data available
  Remarks: No data available

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.

12.6 Other adverse effects

**Product:**
- Additional ecological information:
  - An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
  - Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product:**
- Dispose of wastes in an approved waste disposal facility.
- The product should not be allowed to enter drains, water
courses or the soil.
In accordance with local and national regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Dispose of as unused product.
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

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. (Diflubenzuron) |
| ADR | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflubenzuron) |
| RID | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflubenzuron) |
| IMDG| : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflubenzuron) |
| IATA| : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., Environmentally hazardous substance, liquid, n.o.s. (Diflubenzuron) |

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: (E)

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
Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft): 964
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

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

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: Not applicable
of dangerous chemicals

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable


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15.2 Chemical Safety Assessment
No information available.

SECTION 16: Other information

Full text of H-Statements

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.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Eye Dam. : Serious eye damage
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

(Q)SAR - (Quantitative) Structure Activity Relationship; 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; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; 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; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information

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.

GB / EN

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**Carechem24 International Worldwide Coverage**

**Emergency Phone Number**

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