1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DIMILIN® SC48
Product code : 400000003969

Manufacturer or supplier's details
Company: Arysta Lifesciences (Pty) Ltd
7 Sunbury Park
Off Douglas Saunders Drive
La Lucia Ridge Office Estate
Durban
South Africa
4019
Telephone : +27 (0)31 514 5600

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)+27 21 300 2732 (NCEC)
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Recommended use of the chemical and restrictions on use
Recommended use : Insecticide
Acaricide
Restrictions on use : Agriculture
For professional users only.

2. HAZARDS IDENTIFICATION

Most important hazards
Dangerous for the environment R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-[[4-chloro-phenyl]amino]carbonyl]-2,6-difluorobenzamide</td>
<td>35367-38-5</td>
<td>N; N; R50/53</td>
<td>&gt;= 30 - &lt; 50</td>
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<tr>
<td>Sulfurous acid, monosodium salt, reaction products with cresol-formaldehydenonylphenol polymer (average MW 300-600)</td>
<td>115535-44-9</td>
<td>R53</td>
<td>&gt;= 2,5 - &lt; 10</td>
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<tr>
<td>ethane-1,2-diol</td>
<td>107-21-1</td>
<td>Xn; R22</td>
<td>&gt;= 1 - &lt; 10</td>
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<tr>
<td>sodium diisopropylnaphthalenesulphonate</td>
<td>1322-93-6</td>
<td>Xi; Xi; R36</td>
<td>&gt;= 1 - &lt; 3</td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

General advice : No hazards which require special 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 : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and : No information available.
effects, both acute and delayed: No information available.
Notes to physician: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.
Specific extinguishing methods: 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.
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Keep in properly labelled containers. Dispose of rinse water as waste water.
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.
Methods and materials for containment and cleaning up: In accordance with local and national regulations.
Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Normal measures for preventive fire protection.
Advice on safe handling: For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage: 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.
Keep in a cool, well ventilated place away from oxidizing agents.
Incompatible with strong acids and bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Engineering measures
: Use mechanical ventilation for general area control.
Exhaust air must be cleaned using approved equipment before returning it to the workplace.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection
: In the case of vapour formation use a respirator with an approved filter.
Respirator with a vapour filter (EN 141)

Hand protection

Remarks
: butyl-rubber 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.

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

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
: suspension

Colour
: off-white

Odour
: No data available

Odour Threshold
: No data available

pH
: 6 - 8, 1 %
5. PHYSICAL AND CHEMICAL PROPERTIES

- Melting point/range: Not applicable
- Boiling point/boiling range: No data available
- Flash point: Not applicable
- Evaporation rate: No data available
- Flammability (solid, gas): Not applicable
- Upper explosion limit: No data available
- Lower explosion limit: No data available
- Vapour pressure: No data available
- Relative vapour density: No data available
- Relative density: No data available
- Density: 1.2 - 1.3 g/cm³ (20 °C)
- Solubility(ies)
  - Water solubility: dispersible
- Solubility in other solvents: No data available
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity
  - Viscosity, dynamic: 1.000 - 1.600 mPa.s (25 °C)
  - Viscosity, kinematic: No data available
- Oxidizing potential: No information available.

10. STABILITY AND REACTIVITY

- Reactivity: Stable under recommended storage conditions.
- Chemical stability: No decomposition if stored and applied as directed.
- Possibility of hazardous reactions
  - Hazardous polymerisation does not occur.
  - Stable under recommended storage conditions.
  - No decomposition if used as directed.
- Conditions to avoid: No data available
Incompatible materials: Strong acids and strong bases
                        Strong oxidizing agents

Hazardous decomposition products: Burning produces noxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:
Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg
GLP: yes

Acute inhalation toxicity: LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity: LD50 (Rat): > 2.000 mg/kg

Components:
ethane-1,2-diol:
Acute oral toxicity: LD50 (Rat, female): 4.700 mg/kg

Acute dermal toxicity: LD50 (Rabbit): 10.670 mg/kg

Skin corrosion/irritation

Product:
Species: Rabbit
Result: No skin irritation
GLP: yes

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:
Species: Rabbit
Result: No eye irritation

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation

Product:
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.
GLP: yes

Remarks: No data available

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Remarks: No data is available on the product itself.

Persistence and degradability

No data available

Bioaccumulative potential

Components:
ethane-1,2-diol:
Partition coefficient: n-octanol/water: log Pow: -1.3

Mobility in soil

Product:
Mobility: Remarks: No data available

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.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulation
15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
International Chemical Weapons Convention (CWC) : Neither banned nor restricted
Schedules of Toxic Chemicals and Precursors

Labelling
Symbol(s) : N
Risk phrase(s) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrase(s) : S57 Use appropriate container to avoid environ-
SAFETY DATA SHEET

DIMILIN® SC48

Version 2.0  Revision Date: 16.10.2015  MSDS Number: 400000003969  Country: ZA  Language: EN

This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION

Full text of R-Phrases

R22  Harmful if swallowed.
R36  Irritating to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53  May cause long-term adverse effects in the aquatic environment.

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Cooperation 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances Control Act (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

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.
## Emergency Phone Number

<table>
<thead>
<tr>
<th>Region</th>
<th>Area</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Europe:</strong></td>
<td>All European Countries</td>
<td>+44 (0) 1235 239 670 (NCEC)</td>
</tr>
<tr>
<td><strong>Asia Pacific:</strong></td>
<td>East / South East Asia – Regional Number</td>
<td>+65 3158 1074</td>
</tr>
<tr>
<td></td>
<td>Australia</td>
<td>+61 2801 44558</td>
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<tr>
<td></td>
<td>New Zealand</td>
<td>+64 9929 1483</td>
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<tr>
<td></td>
<td>China</td>
<td>+86 532 8388 9090</td>
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<td></td>
<td>China Taiwan</td>
<td>+86 10 5100 3039</td>
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<td></td>
<td>Japan</td>
<td>+81 345 789 341</td>
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<td></td>
<td>Indonesia</td>
<td>00780 3011 0293</td>
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<td>Malaysia</td>
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<td>Philippines</td>
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<td>Sri Lanka</td>
<td>+65 3158 1195</td>
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<td>Emergency Phone Number</td>
<td>+65 3158 1200</td>
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<td><strong>Middle East / Africa:</strong></td>
<td>Arabic speaking countries</td>
<td>+44 (0) 1235 239 671</td>
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<td></td>
<td>South Africa</td>
<td>+27 21 300 2732</td>
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<td></td>
<td>All other countries</td>
<td>+44 (0) 1235 239 670</td>
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<tr>
<td><strong>America</strong></td>
<td>United States of America and Canada</td>
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<td><strong>Latin America:</strong></td>
<td>Brazil</td>
<td>+55 113 711 9144</td>
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