SAFETY DATA SHEET

Mirador 250 SC

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Mirador 250 SC

Synonyms
Azoxystrobin 250 SC

Pure substance/mixture
Mixture

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

Recommended Use
Fungicide

Uses advised against
No information available

Details of the supplier of the safety data sheet

Supplier Address
ADAMA SOUTH AFRICA (PTY) LTD
Ground Floor, Simeka House
The Vineyards Office Estate
99 Jip de Jager Drive
Bellville 7530

For further information, please contact

Email address
SDS@ADAMA.COM

Emergency Telephone

+ 27 82 446 8946
+ 27 86 155 5777
+ 27 21 982 1460

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute aquatic toxicity
Category 1 - (H400)

Chronic aquatic toxicity
Category 1 - (H410)

Label Elements

Hazard pictograms

Signal word
Warning
Mirador 250 SC - FNG56843-27 Revision Date 28-Nov-2018

Hazard Statements
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements
P102 - Keep out of reach of children
P501 - Dispose of contents/container to an approved waste disposal plant

Other Hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>CAS No</th>
<th>EC No</th>
<th>GHS Classification</th>
<th>M-Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azoxystrobin</td>
<td>21 - 25</td>
<td>131860-33-8</td>
<td>603-524-3</td>
<td>Acute Tox. 3 (H331)</td>
<td>M=10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1 (H400)</td>
<td>M=10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1 (H410)</td>
<td>M=10</td>
</tr>
<tr>
<td>Alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt</td>
<td>1 - 2</td>
<td>68425-94-5</td>
<td>614-476-8</td>
<td>Eye Irrit. 2 (H319)</td>
<td></td>
</tr>
</tbody>
</table>

Section 4: FIRST AID MEASURES

First aid measures

General advice
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

Inhalation
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion
Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider
Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed
Symptoms
None known

Indication of any immediate medical attention and special treatment needed
Note to physicians
Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.
Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information
See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits
Exposure controls

Engineering Controls  Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection  Tight sealing safety goggles.
Hand Protection  Gloves made of plastic or rubber.
Body Protection  Suitable protective clothing.
Respiratory protection  Use only with adequate ventilation.

General Hygiene Considerations  When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Environmental exposure controls  Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Property  Values  Method  Remarks
Appearance
  Physical state  liquid
  Color  Off-white
  Odor  Organic Solvent
  Odor threshold  No data available
pH  7 - 8  CIPAC MT 75.3  solution (1 %)
Melting point/freezing point °C  No data available
Boiling point/bubbling range °C  No data available
Flash point °C  ...  EEC A.9  Not flammable
Evaporation rate  Not Applicable
Flammability (solid, gas)  Not Applicable
Upper/lower flammability or explosive limits  No data available
Vapor pressure kPa  No data available
Vapor density  No data available
Relative density  1.076 - 1.079  EEC A.3
Solubility(ies) mg/l  No data available
Partition Coefficient
  (n-octanol/water) Log Pow  See Section 12 for more information
Autoignition temperature °C  475  EEC A.15
Decomposition temperature °C  No data available
Kinematic viscosity mm2/s  110  OECD 114
Explosive properties  Not an explosive  EEC A.14
Oxidizing properties  Not oxidizing

Other Information
Bulk density g/ml
Surface tension mN/m  70.3  EEC A.5

Section 10: STABILITY AND REACTIVITY

Reactivity  Not available.

Chemical stability  Stable under normal conditions.
Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Values</th>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 mg/kg: &gt; 2000</td>
<td>Rat</td>
<td>OECD 425</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50 mg/kg: &gt; 2000</td>
<td>Rat</td>
<td>OECD 402</td>
<td></td>
</tr>
<tr>
<td>Inhalation LC50 mg/l/4h:</td>
<td></td>
<td></td>
<td>viscous liquid Not Applicable</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Non-irritating to the skin | Rabbit | OECD 404 |
Serious eye damage/eye irritation: Not irritating to eyes | Rabbit | OECD 405 |
Respiratory/skin sensitization: Not a skin sensitizer | Guinea pig | OECD 406 |

Chronic toxicity

Germ cell mutagenicity
Chemical Name: Azoxystrobin | Not classified |

Carcinogenicity
Chemical Name: Azoxystrobin | Not Carcinogenic |

Reproductive toxicity
Chemical Name: Azoxystrobin | Not toxic for the reproductive system |

STOT - single exposure
Chemical Name: Azoxystrobin | No data available |

STOT - repeated exposure
Chemical Name: Azoxystrobin | No data available |

Aspiration hazard
Chemical Name: Azoxystrobin | No data available |

Section 12: ECOLOGICAL INFORMATION

Toxicity
Mirador 250 SC - FNG56843-27 Revision Date 28-Nov-2018

Aquatic toxicity

<table>
<thead>
<tr>
<th>Species</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 96-hour LC50 mg/l</td>
<td>1.66</td>
<td>OECD 203</td>
</tr>
<tr>
<td>Crustacea 48-hour EC50 mg/l</td>
<td>0.90</td>
<td>OECD 202</td>
</tr>
<tr>
<td>Algae 72-hour EC50 mg/l</td>
<td>1.16</td>
<td>OECD 201</td>
</tr>
</tbody>
</table>

Terrestrial Toxicity

<table>
<thead>
<tr>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds Oral LD50 mg/kg</td>
<td>&gt;2000</td>
</tr>
<tr>
<td>Bees Oral LD50 μg/bee</td>
<td>&gt;25</td>
</tr>
</tbody>
</table>

Persistence and degradability

<table>
<thead>
<tr>
<th>Species</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water DT50 days</td>
<td>205</td>
<td>pH 6.4-7.5 :20 °C</td>
</tr>
<tr>
<td>Soil DT50 days</td>
<td>262</td>
<td>20 °C</td>
</tr>
</tbody>
</table>

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azoxystrobin</td>
<td>2.7</td>
<td>OECD 107 pH 5; 20 °C</td>
</tr>
</tbody>
</table>

Bioconcentration factor (BCF)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azoxystrobin</td>
<td>...</td>
</tr>
</tbody>
</table>

Mobility in soil

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azoxystrobin</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.
Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Improper disposal or reuse of this container may be dangerous and illegal.

Other Information
Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO
UN/ID No * 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin)
Hazard Class 9
Packing Group III
Marine pollutant Yes

Special precautions for user

RID/ADR
UN/ID No * 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin)
Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

ICAO/IATA
UN/ID No * 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Azoxystrobin)
Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable

* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Section 16: OTHER INFORMATION

Revision Note
Changes made to the last version are labeled with this sign ***.

List of Acronyms
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS Number - Chemical Abstracts Service number
EC Number - EINECS and ELINCS Number
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development
PBT - Persistent, Bioaccumulative and Toxic substance
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT - Specific Target Organ Toxicity
vPvB - Very Persistent and Very Bioaccumulative

Disclaimer
The information provided in this Material 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.

End of Safety Data Sheet