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

Product identifier
Trade name
MELOCON® WG
Product code (UVP)
80877099
SDS Number
102000028478
EPA Registration No.
264-1175-70051

Relevant identified uses of the substance or mixture and uses advised against
Use
Nematicide
Restrictions on use
See product label for restrictions.

Manufactured for:
CERTIS USA LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046
U.S.A.

Emergency telephone no.
Emergency Telephone Number (24hr/ 7 days)
1-800-255-3924
Product Information Telephone Number
1-800-250-5024 (Certis USA)
SDS Information
http://www.certisusa.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200
This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards
Micro-organisms may have the potential to provoke sensitising reactions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purpureocillium lilacinum strain 251</td>
<td></td>
<td>6.00</td>
</tr>
</tbody>
</table>
SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation
Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Skin contact
Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms
No symptoms known or expected.

Indication of any immediate medical attention and special treatment needed

Treatment
Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable
Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable
High volume water jet

Special hazards arising from the substance or mixture
Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters
Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information
Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point
not applicable
Autoignition temperature: to 400 °C / 752 °F
Lower explosion limit: not applicable
Upper explosion limit: not applicable
Explosivity: no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Precautions: Avoid dust formation. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.

Methods and materials for containment and cleaning up
Methods for cleaning up: Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice: Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

Reference to other sections: Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling: No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid dust formation. Ensure adequate ventilation.

Hygiene measures: When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again.

Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Store in a place accessible by authorized persons only. Store in original container. Protect against moisture. Keep containers tightly closed in a dry, cool and well-ventilated place.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
No control parameters known.

Exposure controls

Personal protective equipment
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection Chemical resistant nitrile rubber gloves

Eye protection Safety glasses with side-shields

Skin and body protection Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance light pink

Physical State granular

Odor odourless

Odour Threshold no data available

pH 6 - 8 at 3 %

Vapor Pressure no data available

Vapor Density (Air = 1) no data available

Bulk density 0.47 - 0.55 g/ml

Evaporation rate not applicable

Boiling Point not applicable

Melting / Freezing Point ca. 146 °C / 294.8 °F

Water solubility dispersible

Minimum Ignition Energy no data available

Decomposition temperature no data available
Partition coefficient: n-octanol/water  no data available
Viscosity  not applicable
Flash point  not applicable
Autoignition temperature  to 400 °C / 752 °F
Lower explosion limit  not applicable
Upper explosion limit  not applicable
Explosivity  no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition  no data available
Chemical stability  Stable under normal conditions.
Possibility of hazardous reactions  No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid  Extremes of temperature and direct sunlight.
Incompatible materials  no data available
Hazardous decomposition products  No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes  Skin contact, Eye contact, Inhalation, Ingestion
Immediate Effects
Skin  Harmful if absorbed through skin.
Ingestion  Harmful if swallowed.
Inhalation  Harmful if inhaled.
Information on toxicological effects
Acute oral toxicity  ATE (rat) > 2,000 mg/kg
Acute inhalation toxicity  ATE (rat) > 5 mg/l
  Exposure time: 4 h
Acute dermal toxicity  ATE (rat) > 2,000 mg/kg
Skin irritation  No skin irritation (rabbit)
Eye irritation  No eye irritation (rabbit)
Sensitisation  Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**
Puprpureocillium lilacinum did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**
Puprpureocillium lilacinum was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**
Puprpureocillium lilacinum: Test not required for microorganisms.

**ACGIH**
None.

**NTP**
None.

**IARC**
None.

**OSHA**
None.

**Assessment toxicity to reproduction**
Puprpureocillium lilacinum: Test not required for microorganisms.

**Assessment developmental toxicity**
Puprpureocillium lilacinum: Test not required for microorganisms.

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**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 (Oncorhynchus mykiss (rainbow trout))</td>
<td>&gt; 100 mg/l</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>96 h</td>
</tr>
</tbody>
</table>

The value mentioned relates to the active ingredient.

**Toxicity to aquatic invertebrates**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 (Daphnia magna (Water flea))</td>
<td>&gt; 100 mg/l</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>48 h</td>
</tr>
</tbody>
</table>

The value mentioned relates to the active ingredient.

**Toxicity to aquatic plants**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 (Desmodesmus subspicatus)</td>
<td>&gt; 71.77 mg/l</td>
</tr>
<tr>
<td>Biomass; Exposure time:</td>
<td>72 h</td>
</tr>
</tbody>
</table>

The value mentioned relates to the active ingredient.

**Biodegradability**
Puprpureocillium lilacinum: Not rapidly biodegradable

**Bioaccumulation**
Puprpureocillium lilacinum: Does not bioaccumulate.
Mobility in soil: Puprpureocillium lilacinum: Immobile in soil

Additional ecological information: No further ecological information is available.

Environmental precautions: Do not allow to get into surface water, drains and ground water.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product: In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging:

Empty remaining contents.
Do not re-use empty containers.
Not completely emptied packagings should be disposed of as hazardous waste.

RCRA Information:

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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SECTION 14: TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

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SECTION 15: REGULATORY INFORMATION

EPA Registration No.: 264-1175-70051

US Federal Regulations:

TSCA list: None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D): None.

SARA Title III - Section 302 - Notification and Information: None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting: None.

US States Regulatory Reporting:

CA Prop65: This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.
US State Right-To-Know Ingredients
None.

Canadian Regulations
Canadian Domestic Substance List
None.

Environmental
CERCLA
None.
Clean Water Section 307 Priority Pollutants
None.
Safe Drinking Water Act Maximum Contaminant Levels
None.

EPA/FIFRA Information:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: Harmful if swallowed, inhaled or absorbed through the skin.
Avoid contact with skin, eyes and clothing.
Avoid breathing dust or spray mist.

SECTION 16: OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 1  Flammability - 0  Instability - 0  Others - none

Health - 1  Flammability - 0  Physical Hazard - 0  PPE -
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: New Safety Data Sheet.

Revision Date: 10/30/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.