

### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
Trade name : Theia® Fungicide  
Synonyms : N/A

#### 1.2. Recommended use and restrictions on use

Recommended use : Biological fungicide and bactericide  
Restrictions on use : Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

#### 1.3. Supplier

Certis USA LLC  
9145 Guilford Road, Suite 175  
Columbia, MD 21046

#### 1.4. Emergency telephone number

Emergency number : In case of transport or medical emergencies, impacted party can call Velocity/Chemtel at 1-800-255-3924.

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Name : Theia® Fungicide

| Name                               | Product identifier        | %   |
|------------------------------------|---------------------------|-----|
| Bacillus subtilis strain AFS032321 | CAS-No.: None<br>Assigned | 100 |

Full text of hazard classes and H-statements: see section 16

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### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Move the affected person to fresh air. Get medical attention if symptoms occur.                   |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. Get medical advice if skin irritation persists.        |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.  |

### 4.2. Most important symptoms and effects (acute and delayed)

|            |  |
|------------|--|
| Inhalation | : May cause minor irritation to the respiratory tract and to other mucous membranes.                       |
| Skin       | : May cause slight irritation to the skin. May cause sensitization of susceptible persons by skin contact. |
| Eyes       | : May cause minor eye irritation.  |
| Ingestion  | : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                    |

### 4.3. Immediate medical attention and special treatment, if necessary

Not required.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Foam. Water spray. |
| Unsuitable extinguishing media | : None.   |

### 5.2. Specific hazards arising from the chemical

|  |   |
|--|---|
| Fire hazard                                      | : This product is not classified as flammable or combustible. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.                                |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |
|--------------------------------|--|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |   |
|------------------|---|
| General measures | : Remove clothing or PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wear suitable protective clothing. Avoid contact with eyes, skin and clothing. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

### 6.2. Environmental precautions

Avoid release of bulk material to the environment.

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

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Mechanically recover the product.   |
| Other information       | : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). |

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Avoid contact with eyes, skin and clothing. Wash hands with water and soap. Ensure adequate ventilation. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.   |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |   |
|------------------------|---|
| Storage conditions     | : Store in dry, cool, well-ventilated area. |
| Incompatible materials | : None known.                               |
| Storage temperature    | : 40 – 85 °F                                |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | : No particular/specific measures required. |
| Environmental exposure controls  | : Avoid release to the environment.         |

### 8.3. Individual protection measures/Personal protective equipment

|   |
|---|
| <b>Hand protection:</b>   |
| Wear suitable gloves  |
| <b>Eye protection:</b>  |
| Use suitable eye protection   |
| <b>Skin and body protection:</b>  |
| Wear suitable protective clothing   |
| <b>Respiratory protection:</b>  |
| In case of insufficient ventilation, wear suitable respiratory equipment. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice. |

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | : Solid             |
| Appearance                                      | : Brown. Powder.    |
| Color   | : Beige to brown    |
| Odor  | : None              |
| Odor threshold                                  | : No data available |
| pH  | : 6.2 – 6.6         |
| Melting point                                   | : No data available |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : No data available |
| Flash point                                     | : ≥                 |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : Non flammable.    |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20°C                  | : No data available |
| Relative density                                | : 0.954             |
| Density   | : 0.43 – 0.52       |
| Solubility                                      | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : Not applicable    |
| Viscosity, dynamic                              | : 9180.1 mPa·s      |
| Explosion limits                                | : Not applicable    |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Theia <sup>®</sup> Fungicide |                        |
|------------------------------|------------------------|
| LD50 oral rat                | > 5000                 |
| LD50 dermal rat              | > 2000                 |
| LC50 Inhalation - Rat        | > 5.89 mg/l            |
| ATE US (oral)                | 5000 mg/kg body weight |
| ATE US (dermal)              | 2000 mg/kg body weight |
| ATE US (vapors)              | 5.17 mg/l/4h           |
| ATE US (dust, mist)          | 5.17 mg/l/4h           |

Skin corrosion/irritation : Not classified  
pH: 6.2 – 6.6

Serious eye damage/irritation : Not classified  
pH: 6.2 – 6.6

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : Not applicable

Inhalation : May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin : May cause slight irritation to the skin. May cause sensitization of susceptible persons by skin contact.

Eyes : May cause minor eye irritation.

Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

#### 12.2. Persistence and degradability

| Theia <sup>®</sup> Fungicide  |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |

  

| Bacillus subtilis strain AFS032321 (None Assigned) |                    |
|--|--------------------|
| Persistence and degradability                      | Rapidly degradable |

#### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation : Dispose of in accordance with applicable federal, state, and local regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : To avoid wastes, use all material in this container by application to label directions. If wastes cannot be avoided, offer remaining product to waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry.). Container Disposal: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. When possible, triple rinse the container and offer for recycling if available.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT                                     | TDG           | IMDG          | IATA          |
|---|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |
| Not regulated for transport             |               |               |               |
| <b>14.2. Proper Shipping Name</b>       |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |

### 14.6. Special precautions for user

**DOT**  
Not regulated

**TDG**  
Not regulated

**IMDG**  
Not regulated

**IATA**  
Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

|                                    |                       |      |
|------------------------------------|-----------------------|------|
| Bacillus subtilis strain AFS032321 | CAS-No. None Assigned | 100% |
|------------------------------------|-----------------------|------|

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### FIFRA Labelling

|                         |           |
|-------------------------|-----------|
| EPA Registration Number | 70051-138 |
|-------------------------|-----------|

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 as required on the pesticide label.

|                               |   |
|-------------------------------|---|
| FIFRA Signal Word             | Caution   |
| FIFRA Precautionary Statement | Keep out of reach of children. Hazards to Humans and Domestic Animals.  |
| FIFRA Human Health Hazards    | CAUTION: Harmful if absorbed through the skin, swallowed, or inhaled. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.   |
| FIFRA Other                   | Store in original containers only. Store in a cool, dry place and avoid excess heat. For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. This product may be harmful to bees and other pollinating insects exposed to direct treatment. Do not apply this product while bees or other pollinating insects are actively visiting the treatment area. |

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

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Revision date : 7/18/2024

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.