Section 1: Identification

Product identifier

Product Name

· FourStar Briquets

Synonyms

· 100514285; 100514296; 100514297; EPA Reg. No.: 83362-3; FourStar Briquets Sustained Release 180 Day Microbial Briquets; FourStar Briquets Sustained Release 45 Day Microbial Briquets; FourStar Briquets Sustained Release 90 Day Microbial Briquets; FourStar Microbial Briquets

Product Description

· Solid, light tan briquette.

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

Recommended use

· Microbial insecticide effective against mosquitoes in a variety of habitats.

Restrictions on use

· Avoid contact with eyes, skin or clothing. Keep out of the reach of children and domestic animals.

Details of the supplier of the safety data sheet

Manufacturer

· B2E Microbials, LLC DBA FourStar Microbials, LLC
  1501 E. Woodfield Road, Suite 200W
  Schaumburg, IL 60173
  United States
  www.centralmosquitocontrol.com

Emergency telephone number

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside US Collect Calls Accepted

Manufacturer • 1-800-248-7763

Section 2: Hazard Identification

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Skin Sensitization 1

Label elements

OSHA HCS 2012

WARNING
Hazard statements • May cause an allergic skin reaction

Precautionary statements

Prevention • Avoid breathing dust, fume, gas, mist, vapors and/or spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response • If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards


Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster of paris</td>
<td>CAS:26499-65-0</td>
<td>60% TO 80%</td>
</tr>
<tr>
<td>Bacillus sphaericus</td>
<td>CAS:143447-72-7</td>
<td>6%</td>
</tr>
<tr>
<td>Bacillus thuringiensis ssp. israelensis</td>
<td>CAS:68038-71-1</td>
<td>1%</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>NDA</td>
<td>Balance</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

• IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

• IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction in individuals with a sensitivity to Bacillus thuringiensis ssp. israelensis. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

- No data available.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Material is non-combustible and is not expected to pose a fire or explosion hazard.

Hazardous Combustion Products

- No data available.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Avoid contact with skin, eyes, and clothing. Wear appropriate personal protective equipment, avoid direct contact. Remove clothing and wash thoroughly before use.

Emergency Procedures

- Use normal clean up procedures.

Environmental precautions

- Follow best practice for site management and disposal of waste.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Use appropriate Personal Protective Equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use good safety and industrial hygiene practices. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage
Store closed containers in a cool dry place. Do not contaminate water, food or feed by storage or disposal.

### Section 8 - Exposure Controls/Personal Protection

#### Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster of paris (26499-65-0) TWAs</td>
<td>10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
</tr>
</tbody>
</table>

#### Exposure controls

**Engineering Measures/Controls**
- No data available.

**Personal Protective Equipment**

- **Pictograms**
  - 🕵️
  - 👁️

- **Respiratory**
  - None specified.

- **Eye/Face**
  - Wear safety glasses.

- **Hands**
  - Wear appropriate gloves.

- **Skin/Body**
  - If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

#### General Industrial Hygiene Considerations
- Wash thoroughly with soap and water after handling.

#### Environmental Exposure Controls
- Refer to Section 13 - Disposal Considerations.

### Section 9 - Physical and Chemical Properties

#### Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Odor</th>
<th>Specific Gravity/Relative Density</th>
<th>Melting Point/Freezing Point</th>
<th>Water Solubility</th>
<th>Viscosity</th>
<th>Vapor Pressure</th>
<th>Evaporation Rate</th>
<th>Flammability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Solid</td>
<td>Solid briquette.</td>
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<td></td>
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</tr>
<tr>
<td><strong>Color</strong></td>
<td>light tan.</td>
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<td>Particulate Type</td>
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<td><strong>Odor Threshold</strong></td>
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<td>Physical and Chemical Properties</td>
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<td><strong>Boiling Point</strong></td>
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<td>Melting Point/Freezing Point</td>
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<td></td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
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<td>pH</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
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<td>Bulk Density</td>
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<td>0.82 g/cm³</td>
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<td></td>
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<td></td>
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<tr>
<td><strong>Water Solubility</strong></td>
<td>Soluble</td>
<td>Viscosity</td>
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<td></td>
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<tr>
<td><strong>Vapor Pressure</strong></td>
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<td>Vapor Density</td>
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</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
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<td></td>
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<tr>
<td><strong>Flammability</strong></td>
<td></td>
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</tr>
</tbody>
</table>
### Section 10: Stability and Reactivity

#### Reactivity
- Non-reactive

#### Chemical stability
- Stable

#### Possibility of hazardous reactions
- Hazardous polymerization will not occur.

#### Conditions to avoid
- No data available.

#### Incompatible materials
- Strong bases.

#### Hazardous decomposition products
- No data available.

### Section 11 - Toxicological Information

#### Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • &gt;5000 mg/kg; Inhalation-Rat LC50 • &gt;2.04 mg/L 4 Hour (s); Skin-Rabbit LD50 • &gt;5000 mg/kg; Irritation: Eye-Rabbit • Mild irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus sphaericus (6%)</td>
<td>143447-72-7</td>
</tr>
<tr>
<td>Bacillus thuringiensis ssp. israelensis (1%)</td>
<td>68038-71-1</td>
</tr>
</tbody>
</table>
| Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; Irritation: Eye-Rabbit • Mild irritation |}

**GHS Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Skin Sensitizer 1</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>
Route(s) of entry/exposure

Potential Health Effects

Inhalation
- Acute (Immediate): Under normal conditions of use, no health effects are expected.
- Chronic (Delayed): No data available

Skin
- Acute (Immediate): May cause an allergic reaction in individuals with a sensitivity to Bacillus thuringiensis ssp. israelensis and/or Bacillus sphaericus. May cause mild irritation.
- Chronic (Delayed): No data available

Eye
- Acute (Immediate): May cause moderate irritation.
- Chronic (Delayed): No data available.

Ingestion
- Acute (Immediate): Under normal conditions of use, no health effects are expected.
- Chronic (Delayed): No data available

Other
- Chronic (Delayed): No data available.

Section 12 - Ecological Information

Toxicity
- No data available

Persistence and degradability
- No data available

Bioaccumulative potential
- No data available

Mobility in Soil
- No data available

Other adverse effects

Potential Environmental Effects
- Do not contaminate water when disposing or equipment washwaters or rinsate. Do not apply to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not contaminate water, food, or feed by storage or disposal.
Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class (es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Special precautions for user

• None specified.

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

Other information

IMO/IMDG • No data available
IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Hazard Statements • Keep out of reach of children.

Precautionary Statements •

Hazards to Humans and Domestic Animals

Hazards to Humans and Domestic Animals - Caution: Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid contact with skin, eyes or clothing. 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

First Aid •

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. Call poison control center or doctor for treatment advice.

IF IN EYES: 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 poison control center or doctor for treatment advice. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Environmental Hazards**

Do not apply to treated, finish drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus sphaericus</td>
<td>143447-72-7</td>
<td>No</td>
</tr>
<tr>
<td>Bacillus thuringiensis ssp. israelensis</td>
<td>68038-71-1</td>
<td>Yes</td>
</tr>
<tr>
<td>Plaster of paris</td>
<td>26499-65-0</td>
<td>No</td>
</tr>
</tbody>
</table>

**Section 16 - Other Information**

- **Revision Date**: 09/June/2016
- **Last Revision Date**: 27/April/2015
- **Preparation Date**: 30/April/2014
- **Disclaimer/Statement of Liability**:
  
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