

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

- Product Name** • **Howard Johnson's Bifenthrin 0.069% Insecticide Plus Turf Food**
- Synonyms** • EPA Reg. No.: 53883-160-32802; FertCa
- Product Code** • FertCa
- Product Description** • Variable colored granules.

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

- Recommended use** • Lawn fertilizer plus insecticide.
- Restrictions on use** •
- Keep out of reach of children and domestic animals. Avoid breathing dust. Avoid contact with eyes, skin and clothing.

#### Details of the supplier of the safety data sheet

- Manufacturer** • Howard Johnson's Enterprises, Inc.  
9675 S. 60th Street  
Franklin, WI 53132  
United States  
www.hjefertilizer.com
- Telephone (General)** • (414) 394-3590 - 8:30am - 5:00pm CST

#### Emergency telephone number

- Manufacturer** • 1-800-424-9300 - CHEMTREC - Transportation and Non-Transportation related emergencies
- Manufacturer** • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

- OSHA HCS 2012** • Carcinogenicity 1A

#### Label elements

## OSHA HCS 2012

**DANGER**

**Hazard statements** • May cause cancer.

**Precautionary statements**

**Prevention** • Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF exposed or concerned: Get medical advice/attention.

**Storage/Disposal** •

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.  
Store locked up.

**Other hazards**

## OSHA HCS 2012

- This pesticide is extremely toxic to fish and aquatic invertebrates. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## 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**

| Composition                  |                |            |
|------------------------------|----------------|------------|
| Chemical Name                | Identifiers    | %          |
| Bifenthrin                   | CAS:82657-04-3 | 0.069%     |
| Silica, crystalline - quartz | CAS:14808-60-7 | > 0.1%     |
| Limestone                    | CAS:1317-65-3  | 25% TO 85% |
| Other ingredients            | NDA            | Balance    |

## 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 physician if symptoms occur.
-

- Skin** IF ON SKIN: Wash skin with soap and water. If irritation develops and persists, get medical attention.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
- Ingestion**
- IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed by medical personnel.

### Most important symptoms and effects, both acute and delayed

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

- Unsuitable Extinguishing Media**
- Avoid heavy hose streams.

### Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- None known.

- Hazardous Combustion Products**
- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

### 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.

- Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

### Environmental precautions

- Avoid runoff to waterways and sewers.

### Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Sweep or scoop up spills, dispose of any unusable material in approved landfill. Use appropriate Personal Protective Equipment (PPE).

## Section 7 - Handling and Storage

### Precautions for safe handling

#### Handling

- Avoid contact with skin, eyes, and clothing. Avoid breathing dust. To minimize dust generation and accumulation, spills should be cleaned up and dust accumulations should be removed promptly. Wash thoroughly with soap and water after handling.

### Conditions for safe storage, including any incompatibilities

#### Storage

- Store in a cool/low-temperature, well-ventilated, dry place. Avoid humid or wet conditions. Keep out of reach of children. Keep container tightly closed. Store locked up.

#### Incompatible Materials or Ignition Sources

- No data available.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

| Exposure Limits/Guidelines                |        |   |  |  |
|---|--------|---|--|--|
|   | Result | ACGIH   | NIOSH  | OSHA   |
| Silica, crystalline - quartz (14808-60-7) | TWAs   | 0.025 mg/m <sup>3</sup> TWA (respirable particulate matter) | 0.05 mg/m <sup>3</sup> TWA (respirable dust)                                     | 0.05 mg/m <sup>3</sup> TWA (respirable dust)   |
| Limestone (1317-65-3)                     | TWAs   | Not established   | 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust) | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) |

### Exposure Control Notations

#### ACGIH

- Silica, crystalline - quartz (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

### Exposure Limits Supplemental

#### OSHA

- Silica, crystalline - quartz (14808-60-7): **Mineral Dusts:** ((250)/(%SiO<sub>2</sub> + 5) mppcf TWA, respirable fraction; (10)/(%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> TWA, respirable fraction)

#### ACGIH

- Silica, crystalline - quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

### Exposure controls

#### Engineering

#### Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- If handling without sufficient ventilation, wear a NIOSH approved respirator with organic cartridge.

#### 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. Use full body suit such as Tyvek or Tychem suit is recommended.
- General Industrial Hygiene Considerations**
- Handle in accordance with good industrial hygiene and safety practice.
- Environmental Exposure Controls**
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

| <b>Material Description</b>         |                   |                              |                                |
|-------------------------------------|-------------------|------------------------------|--------------------------------|
| Physical Form                       | Solid             | Appearance/Description       | Variable colored granules.     |
| Color                               | Varies            | Odor                         | Varies                         |
| Odor Threshold                      | No data available |                              |                                |
| <b>General Properties</b>           |                   |                              |                                |
| Boiling Point                       | No data available | Melting Point/Freezing Point | No data available              |
| Decomposition Temperature           | No data available | pH                           | Not relevant                   |
| Specific Gravity/Relative Density   | No data available | Bulk Density                 | 45 to 80 lb(s)/ft <sup>3</sup> |
| Water Solubility                    | No data available | Viscosity                    | Not relevant                   |
| <b>Volatility</b>                   |                   |                              |                                |
| Vapor Pressure                      | No data available | Vapor Density                | No data available              |
| Evaporation Rate                    | No data available |                              |                                |
| <b>Flammability</b>                 |                   |                              |                                |
| Flash Point                         | Not relevant      | UEL                          | No data available              |
| LEL                                 | No data available | Autoignition                 | No data available              |
| Flammability (solid, gas)           | No data available |                              |                                |
| <b>Environmental</b>                |                   |                              |                                |
| Octanol/Water Partition coefficient | No data available |                              |                                |

## Section 10: Stability and Reactivity

### Reactivity

- Non-reactive under normal handling and storage conditions.

### Chemical stability

- Stable

### Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### Conditions to avoid

- Extreme heat, high humidity or moisture.

### Incompatible materials

- No data available.

## Hazardous decomposition products

- Flammable/toxic gases will form at elevated temperatures by thermal decomposition.

## Section 11 - Toxicological Information

### Information on toxicological effects

| Components          |            |  |
|---------------------|------------|--|
| Bifenthrin (0.069%) | 82657-04-3 | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 50-300 mg/kg; Skin-Rat LD50 • >2000 mg/kg;<br><b>Irritation:</b> Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Mild irritation |

| GHS Properties                | Classification  |
|-------------------------------|---|
| Acute toxicity                | OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met |
| Skin corrosion/Irritation     | OSHA HCS 2012 • Classification criteria not met   |
| Serious eye damage/Irritation | OSHA HCS 2012 • Classification criteria not met   |
| Skin sensitization            | OSHA HCS 2012 • Classification criteria not met   |
| Respiratory sensitization     | OSHA HCS 2012 • Classification criteria not met   |
| Aspiration Hazard             | OSHA HCS 2012 • Classification criteria not met   |
| Carcinogenicity               | OSHA HCS 2012 • Carcinogenicity 1A  |
| Germ Cell Mutagenicity        | OSHA HCS 2012 • Not classified - data lacking   |
| Toxicity for Reproduction     | OSHA HCS 2012 • Classification criteria not met   |
| STOT-SE                       | OSHA HCS 2012 • Classification criteria not met   |
| STOT-RE                       | OSHA HCS 2012 • Classification criteria not met   |

### Potential Health Effects

#### Inhalation

##### Acute (Immediate)

- Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Exposure to dust may cause mild respiratory irritation.

##### Chronic (Delayed)

- Repeated or prolonged inhalation of dust may cause respiratory irritation. Repeated and prolonged exposure to crystalline silica containing materials may cause irritation and/or lung damage silicosis, fibrosis, inflammation, cancer.

#### Skin

##### Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

##### Chronic (Delayed)

- No data available.

#### Eye

##### Acute (Immediate)

- Exposure to dust may cause mechanical 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.

**Mutagenic Effects** • Not classified.

**Carcinogenic Effects** • Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

| Carcinogenic Effects         |            |                      |                        |
|------------------------------|------------|----------------------|------------------------|
|                              | CAS        | IARC                 | NTP                    |
| Silica, crystalline - quartz | 14808-60-7 | Group 1-Carcinogenic | Known Human Carcinogen |

**Reproductive Effects** • Not classified.

## Section 12 - Ecological Information

### Toxicity

| Components             |            |   |
|------------------------|------------|---|
| Bifenthrin<br>(0.069%) | 82657-04-3 | <b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>S. gairdneri</i> 0.1 mg/L [Acute]<br><b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) EC50 <i>Daphnia magna</i> 0.65 mg/L [Acute]<br><b>Aquatic Toxicity-Algae and Other Aquatic Plant(s):</b> 72 Hour(s) EC50 Algae <i>P. subcapitata</i> 11.04 mg/L [Acute] |

### Persistence and degradability

• No data available

### Bioaccumulative potential

• No data available.

### Mobility in Soil

• No data available.

### Other adverse effects

**Potential Environmental Effects** • This product is extremely toxic to aquatic organisms, including fish and invertebrates.

## 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.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

|     | UN number | UN proper shipping name  | Transport hazard class(es) | Packing group | Environmental hazards |
|-----|-----------|--|----------------------------|---------------|-----------------------|
| DOT | UN3077    | Bulk packaging only: Environmentally hazardous substance, solid, n.o.s. (Bifenthrin) | 9                          | III           | Marine Pollutant      |

|                  |        |  |   |     |                        |
|------------------|--------|--|---|-----|------------------------|
| <b>IMO/IMDG</b>  | UN3077 | Packaging 5 kg or greater: Environmentally hazardous substance, solid, n.o.s. (Bifenthrin) | 9 | III | Marine Pollutant       |
| <b>IATA/ICAO</b> | UN3077 | Packaging 5 kg or greater: Environmentally hazardous substance, solid, n.o.s. (Bifenthrin) | 9 | III | Acute Aquatic Toxicity |

**Special precautions for user** • None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

**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** • SARA Title III Section 313, Chronic

### 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** •

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### First Aid •

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

### Environmental Hazards •

This pesticide is extremely toxic to aquatic organisms, including fish, aquatic invertebrates, oysters and shrimp. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to waterbodies or drainage systems.

| Inventory  |            |      |
|------------|------------|------|
| Component  | CAS        | TSCA |
| Bifenthrin | 82657-04-3 | No   |
| Limestone  | 1317-65-3  | Yes  |



|                              |            |     |
|------------------------------|------------|-----|
| Silica, crystalline - quartz | 14808-60-7 | Yes |
|------------------------------|------------|-----|

## United States

### Environment

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

|                                |            |                                |
|--------------------------------|------------|--------------------------------|
| • Limestone                    | 1317-65-3  | Not Listed                     |
| • Silica, crystalline - quartz | 14808-60-7 | Not Listed                     |
| • Bifenthrin                   | 82657-04-3 | 1.0 % de minimis concentration |

## Section 16 - Other Information

|  |  |
|--|--|
| <b>Revision Date</b>                     | • 23/November/2016   |
| <b>Last Revision Date</b>                | • 23/November/2016   |
| <b>Preparation Date</b>                  | • 23/November/2016   |
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