1. PRODUCT IDENTIFICATION

1.1. Product Identifiers

Product name: CimeXa™ Insecticide Dust

1.2. Other Means of Identification

Product synonyms: none

1.3. Recommended Uses/Restrictions to Use

Uses: Amorphous silica gel dust for the control of various pest species per label

Restrictions: See product label for details

1.4. Supplier Details

Company: Rockwell Labs Ltd
1257 Bedford Avenue
North Kansas City, MO 64116-4308
USA

Telephone: 1 816-283-3167

1.5. Emergency Contact

Outside normal business hours
Emergency Phone #: 1 800-424-9300 (USA & Canada)
1 703-527-3887 (Outside USA & Canada)

2. HAZARDS IDENTIFICATION

2.1. Classification of Substance or Mixture

none

2.2. GHS label elements, including precautionary statements

Pictogram(s): none

Signal word: none

Hazard statement(s): none

Precautionary statement(s): none

2.3. Other hazards which do not result in classification

This product is very absorbent and may have a drying effect on skin and eyes. When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Contains (% w/w)</th>
<th>CAS-No.</th>
<th>Hazard Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide (as amorphous silica)</td>
<td>89-95</td>
<td>7631-86-9</td>
<td>none</td>
</tr>
</tbody>
</table>

3.2. Mixtures

Not applicable

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice
Consult a physician or poison control center. Provide this safety data sheet to medical personnel. Move out of hazardous areas.

If inhaled
Move person 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 poison control center or doctor for further treatment advice.

In case of skin contact
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.

In case of eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed
Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

None known

4.3. Indication of any immediate medical attention and special treatment needed, if necessary

None known

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Specific hazards arising from the chemical

No data available

5.3. Special protective equipment and precautions for fire fighters

Wear self contained breathing apparatus for firefighting if deemed necessary.
Additional information: none.

5.4. Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with spilled product and contaminated surfaces. Evacuate personnel to safe areas during emergencies. For safe handling instructions see section 7. For proper PPE see section 8.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up
Sweep up any spilled material and dispose of according to instructions in section 13. Vacuuming or wet sweeping may be used to avoid dust dispersal. Wash contaminated surfaces with soap and water.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Handle in accordance with good industrial hygiene practices. Wash hands thoroughly with soap and water after use and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse. For additional precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities
Store product tightly sealed in original container. Store in a dry location. Do not store where children or animals may gain access.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Components with workplace parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>IDHL 3000 mg/m³</td>
<td>----</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 80 mg/m³/% SiO₂</td>
<td>OSHA PEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 6 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 10*, 5** mg/m³</td>
<td>ACGIH TLV</td>
<td>*Total dust, ** Respirable fraction</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Ensure relevant engineering controls are employed to prevent exceeding threshold values for the listed control parameters in section 8.1.

8.3. Individual protection measures, such as personal protective equipment (PPE)
In normal use and handling conditions refer to the product label for required PPE. In all other cases the following recommendations would apply.

Eye/face protection
Safety glasses or other similar eye protection conforming to ANSI Z87.1 standards recommended when handling product.

**Skin protection**
Chemical resistant nitrile rubber or similarly compatible gloves recommended when handling product. Dispose of contaminated gloves after use in accordance with applicable local and state regulations. Wash exposed skin with soap and water immediately. Wash all contaminated clothing prior to reuse.

**Respiratory protection**
Not required under normal use conditions. When risk assessment shows need for air-purifying respirators use NIOSH approved respirators when handling material with the following airborne concentrations:
- **Up to 30 mg/m³**: (APF = 5) Any quarter-mask respirator.
- **Up to 60 mg/m³**: (APF = 10) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100.
- **Up to 150 mg/m³**: (APF = 10) Any supplied-air respirator
- **Up to 300 mg/m³**: (APF = 25) Any supplied-air respirator operated in a continuous-flow mode
- **Up to 300 mg/m³**: (APF = 25) Any powered, air-purifying respirator with a high-efficiency particulate filter.
- **Up to 1500 mg/m³**: (APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter.
- **Up to 3000 mg/m³**: (APF = 50) Any supplied-air respirator that has a tight-fitting facepiece and is operated in a continuous-flow mode
- **Up to 3000 mg/m³**: (APF = 50) Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter
- **Up to 3000 mg/m³**: (APF = 50) Any self-contained breathing apparatus with a full facepiece
- **Up to 3000 mg/m³**: (APF = 1000) Any supplied-air respirator operated in a pressure-demand or other positive-pressure mode

**Thermal hazards**
None known

9. **PHYSICAL AND CHEMICAL PROPERTIES**

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

- **Appearance;** White powder
- **Odor;** Odorless
- **Odor threshold;** No data available
- **pH;** 2.0 – 4.5 (20 °C)
- **Melting point/freezing point;** >1700 °C (>3092 °F)
Initial boiling point and boiling range; >1700 °C (>3092 °F)
Flash point; No data available
Evaporation rate; No data available
Flammability (solid, gas); Product is not flammable
Upper/lower flammability or explosive limits; No data available
Vapor pressure; No data available
Vapor density; No data available
Relative density; 0.24 g/ml
Solubility; Insoluble
Partition coefficient: n-octanol/water; No data available
Auto-ignition temperature; No data available
Decomposition temperature; No data available
Viscosity; No data available

9.2. Additional Information
No data available

10. STABILITY AND REACTIVITY
10.1. Reactivity
No dangerous reactions known.
10.2. Chemical stability
Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions
No data available
10.4. Conditions to avoid
No data available
10.5. Incompatible materials
No data available
10.6. Hazardous decomposition products
Other decomposition products – no data available
In the event of a fire: see Section 5

11. TOXICOLOGICAL INFORMATION
11.1. Information on toxicological effects
Acute Toxicity
LD50 Oral – Rat – > 5000 mg/kg
LD50 Dermal – Rat – > 6000 mg/kg
LD50 Inhalation – Rat – > 2000 mg/m³/4h

Maximum attainable concentration, mortality does not appear.

**Skin corrosion/irritation**
Skin – Rabbit
Results: not an irritant
(OECD Test Guideline 404)

**Serious eye damage/irritation**
Eye – Rabbit
Results: not an irritant
(OECD Test Guideline 405)

**Respiratory or skin sensitization**
Not a known sensitizer

**Germ cell mutagenicity**
AMES Test – > 5 mg/plate (in vitro)
Results: negative, with and without metabolic activation
(OECD Test Guideline 471)

**Carcinogenicity**
IARC: Category for silica, amorphous (7631-86-9) applies to silicas that may contain crystalline silica. The silica in this product is synthetic and does not contain crystalline silica. IARC: Category 3.

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

**Repeated Dose Toxicity**
Oral – NOAEL (90 d) – Rat
Results: 9000 mg/kg bw/day
(OECD Test guideline 408)

Inhalative – NOAEC (90 d) – Rat
Results: 1 mg/m³ (rat)
(OECD Test Guideline 413)

**Reproductive toxicity**
Oral – NOAEL (maternal toxicity/teratogenicity) – Rat
Results: 1350 mg/kg bw/day
(OECD Test Guideline 414)

**Specific target organ toxicity – single exposure**
No data available

**Specific target organ toxicity – repeated exposure**
No data available
12. ECOLOGICAL INFORMATION

12.1. Toxicity
- Toxicity to fish: LC50 – Danio rerio (Zebra Fish) - > 10,000 mg/l – 96 h
- Toxicity to daphnia: EC50 – Daphnia magna (Water flea) - > 1000 mg/l – 24 h
- and other aquatic invertebrates: EC50 – Scenedesmus subspicatus (Algae) - > 10000 mg/l – 72 h

12.2. Persistence and degradability
Amorphous silica dioxide is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.

12.3. Bioaccumulative potential
Does not accumulate in organisms.

12.4. Mobility in soil
No data available

12.5. Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

The best disposal method is to use the entire quantity per label directions. If it is necessary to dispose of unused material then follow the label instructions and relevant local, state and federal waste disposal guidelines.

Product Disposal:
Do not contaminate water, food or feed by storage or disposal.

Packaging Disposal:
If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP which is managed as a public-private partnership.
See section 8 for proper PPE and precautionary handling measures.

14. TRANSPORT INFORMATION

DOT
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods
15. REGULATORY 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 as required on the pesticide label:

**KEEP OUT OF THE REACH OF CHILDREN**

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

**SARA 302 Components**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
None

**California Proposition 65 Components**
This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or reproductive harm.

**TSCA**
All components of this product are listed, exempted, or excluded from listing on the U.S. Toxic Substances Control Act chemical substance inventory.

16. OTHER INFORMATION

**Acronyms and abbreviations used**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50</td>
<td>Lethal Dose, 50%</td>
</tr>
<tr>
<td>OECD</td>
<td>Organization for Economic Cooperation and Development</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Industrial Hygienists</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
</tbody>
</table>
CimeXa™ Insecticide Dust

CAS-No.  Chemical Abstract Services - Number
PPE  Personal Protective Equipment
HMIS  Hazardous Materials Identification System
NFPA  National Fire Protection Association
PPM  Parts Per Million
TWA  Time Weighted Average
IDLH  Immediately Dangerous to Life or Health
PEL  Permissible Exposure Limit
REL  Recommended Exposure Limit
TLV  Threshold Limit Value
LC50  Lethal Concentration, 50%
EC50  Effective concentration, half maximal
ANSI  American National Standards Institute
APF  Assigned Protection Factor

Hazard Rating System Crossover

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard: 0</td>
<td>Health Hazard: 0</td>
</tr>
<tr>
<td>Flammability: 0</td>
<td>Flammability: 0</td>
</tr>
<tr>
<td>Reactivity: 0</td>
<td>Reactivity: 0</td>
</tr>
</tbody>
</table>

Preparation information
Prepared by: Rockwell Labs Ltd
Version: 1.1
Revision Date: May 17, 2017
Reason for revision: Updated ingredient composition with more appropriate information

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