

Product Name: Prozap® LarvaGuard Mosquito Larvicide Granules
 Issue Date: August 29, 2017
 Replaces: Not applicable
 SDS Number: SDS-9041

1. PRODUCT IDENTIFICATION

Product Name: **Prozap® LarvaGuard Mosquito Larvicide Granules**
 Product Number(s): 5129710
 Use: Insect growth regulator
 Manufactured For: Chem-Tech, Ltd.
 1006 North Highway 5
 Pleasantville, IA 50225
 Manufacturer Phone: 1-800-477-8201
 Emergency Phone: **Medical: 1-800-498-5743 (United States and Canada)**
Spill: 1-800-424-9300 (United States and Canada)

2. HAZARDS IDENTIFICATION

Signal Word (OSHA): DANGER
 Hazard Statements: May cause cancer.
 Causes damage to organs through prolonged or repeated exposure.



Hazard Symbols:

Precautionary Statements: Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms, and face thoroughly after handling.
 Do not eat, drink, or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If exposed or concerned: Get medical advice/attention.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazard Statements: This product is not considered carcinogenic because of the product's physical form. The Hazard Statement "May Cause Cancer" is presented because a component of this product contains naturally occurring crystalline silica (quartz) which is classified as carcinogenic to humans if inhaled. Respiratory exposure to silica dust from the finished product is not expected to occur under normal conditions of use due to the manner in which the constituents are bound. The crystalline silica in the finished product is unlikely to pose personal exposure via inhalation in light of studies conducted that indicate there is minimal liberation of particulates from the product during extreme handling or transport.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
(s)-Methoprene Technical	65733-16-6	1.5%
Silica, crystalline – quartz	14808-60-7	90.6%
Other ingredients	N/A	Balance

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4. FIRST AID MEASURES

First-aid Measures General:

If exposed or concerned: Get medical advice/attention.

First-aid Measures after Inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid Measures after Skin Contact:

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

First-aid Measures after Eye Contact:

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 advice and attention.

First-aid Measures after Ingestion:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

Most Important Symptoms/Effects:

May cause damage to organs (lungs).

Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Water spray, dry powder, and foam. Avoid heavy hose streams.

Specific Hazards:

Material is non-combustible and is not expected to pose a fire or explosion hazard. This product is non-reactive under normal conditions of use, storage, and transport.

Special protective equipment and precautions for firefighters:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

For non-emergency personnel:

Avoid contact with skin, eyes, and clothing. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/vapors/spray.

For emergency responders:

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

Environmental precautions:

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Avoid release to the environment.

Methods and material for containment and cleaning up:

Use appropriate PPE. Sweep or scoop spills, dispose of any unusable material in approved landfill.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Wear personal protective equipment. Do not breath dust/fume/gas/mist/vapors/spray. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities:

Keep only in original container. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limit

Silica, crystalline – quartz (CAS No. 14808-60-7)

ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
OSHA	OSHA PEL (TWA) (mg/m ³)	50 µg/m ³
IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)

Appropriate Engineering Controls:

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Avoid release to the environment.

Individual protection measures/Personal protective equipment:

Hand Protection: Protective Gloves

Eye Protection: Safety glasses

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark gray to black granules
Odor:	Mild hydrocarbon
pH:	Not Available
Melting Point:	1610°C (2930°)
Freezing Point:	Not Available
Boiling Point and Boiling Range:	2230°C (4046°F)
Flash Point (Test Method):	Not Applicable
Flammability:	Non-flammable
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Bulk Density:	1.6 g/cc 100 lb/cu ft
Specific gravity/density:	2.4 g/cm ³

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Relative Density:	Not Applicable
Solubility (ies):	Insoluble
Partition Coefficient:	Not Available
Viscosity:	Not Available
Other:	Not Available

10. STABILITY AND REACTIVITY

Reactivity:	Not reactive under normal conditions of use, storage, and transport
Chemical Stability:	Stable under normal conditions
Possible Hazardous Reactions:	No dangerous reactions known under normal conditions of use
Conditions to Avoid:	None under recommended storage and handling conditions (see section 7)
Incompatible Materials:	No additional information available
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Prozap® LarvaGuard Mosquito Larvicide Granules

LD50 oral rat	> 4000 mg/kg
LD50 dermal rat	> 4000 mg/kg

Silica, crystalline – quartz (CAS No. 14808-60-7)

Listed on IARC (International Agency for Research on Cancer), Listed as carcinogen on NTP (National Toxicology Program)

IARC group	1 – Carcinogenic to Humans
National Toxicity Program (NTP) Status	Known Human Carcinogen
In OSHA Hazard Communication Carcinogen list?	Yes

GHS-US Properties	Classification
Acute Toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Carcinogenicity	May cause cancer
Reproductive toxicity	Not classified
Specific target organ toxicant (single exposure)	Not classified
Specific target organ toxicant (repeated exposure)	Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	Not classified

Potential Health Effects

Inhalation

Acute: Exposure to respirable crystalline silica is not expected during the normal use of this product. However, 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. They symptoms of acute silicosis include progressive shortness of breath, fever, cough, and weight loss.

Chronic: Exposure to respirable crystalline silica is not expected during normal use of the product. However, prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis).

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Skin

Acute: Essentially non-irritating.

Eye

Acute: Essentially non-irritating

Mutagenicity

(s)-Methoprene has been tested and found negative for mutagenicity potential.

Carcinogenicity

(s)-Methoprene is not classified as carcinogen by NTP, IARC and OSHA, Exposure to respirable crystalline silica from the finished product is not expected to occur due to the manner in which the constituents are bonded, thus the finished product is not considered carcinogenic under conditions of normal use.

Reproductive Effects

(s)-Methoprene is not a reproductive toxin.

12. ECOLOGICAL INFORMATION

Toxicity

(s)-Methoprene Technical (CAS No. 65733-16-6)

LC50 Acute fish 1	0.76 mg/l (Exposure time: 96h – Rainbow trout)
LC50 Acute fish 2	> 0.37 mg/l (Exposure time: 96h – Blue gill)
LC50 Acute crustacea 1	0.11 mg/l (Exposure time: 48h – Myside shrimp)
LC50 Acute crustacea 2	0.36 mg/l (Exposure time: 48h – Daphnia magna)
NOEC Chronic fish 1	0.048 mg/l (Fathead minnow)
NOEC Chronic crustacea 1	0.014 mg/l (Myside shrimp)

Persistence and Degradability

(s)-Methoprene Technical (CAS No. 65733-16-6)

Persistence and degradability (s)-Methoprene degrades rapidly in sunlight, both in water and on inert surfaces. The pesticide also is metabolized rapidly in soil and does not leach. Thus, it should not persist in soil or contaminate ground water.

Bioaccumulative potential

No additional information available

Mobility in Soil

(s)-Methoprene Technical (CAS No. 65733-16-6)

Mobility in soil Rapidly metabolized in soil under both aerobic and anaerobic conditions (half-life 10-14 days)

Other Adverse Effects

(s)-Methoprene Technical (CAS No. 65733-16-6)

Ecological Fate This pesticide is toxic to aquatic invertebrates

13. DISPOSAL CONSIDERATIONS

Product/Packaging Disposal Recommendations

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

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14. TRANSPORT INFORMATION

DOT Classification

Not regulated

IMDG Classification

Not regulated

IATA Classification

Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

Silica, crystalline – quartz (CAS No. 14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

FIFRA Labeling

EPA Registration Number 2724-451-47000

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.

FIFRA Signal Word

Caution

FIFRA Hazard Statement

KEEP OUT OF REACH OF CHILDREN

FIFRA Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes or skin. Due to the size and abrasiveness of the granule, use protective eyewear and clothing to minimize exposure during loading and handling. Wash thoroughly with soap and water after handling.

FIFRA First Aid

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. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

FIFRA Environmental Hazards

Do not contaminate water when disposing or rinsate or equipment wash waters.

U.S. State Regulations

No additional information available

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16. OTHER INFORMATION

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