### SOUTHERN AG GRUBS AWAY MATERIAL SAFETY DATA SHEET

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Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc. Phone: 941-722-3285 P.O. Box 218, Palmetto, FL. 34220 Chemtrec: 800-424-9300

### **SECTION 1. CHEMICAL PRODUCT INFORMATION**

Product Name Grubs Away EPA Registration No. 83100-14-829

### **SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name CAS-No. Average % by Weight

138261-41-3 **Imidacloprid** 0.50 Quartz (Silica, Crystalline) 8.22 14808-60-7

### **SECTION 3. HAZARDS IDENTIFICATION**

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview: Caution! Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid

contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Physical State: solid granular

Odor: none Appearance: grey

Routes of Exposure: Eye contact, Skin Absorption, Skin contact, Ingestion

**Immediate Effects:** 

Eve: Causes eye irritation. Do not get in eyes.

**Skin:** Harmful if absorbed through skin. Avoid contact with skin and clothing.

Do not take internally. Harmful if swallowed.

Chronic or Delayed Long-Term: This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.

This product or its components may have target organ effects.

Medical Conditions Aggravated by Exposure: No specific medical conditions are known which may be aggravated by exposure to this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to overexposure. Pulmonary and respiratory diseases may be aggravated by exposure to respirable crystalline silica.

Potential Environmental Effect: Highly toxic to aquatic invertebrates.

### **SECTION 4. FIRST AID MEASURES**

General: When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

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 physician or poison control center immediately. Skin: Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion: Call a physician or poison control center immediately. Rinse out mouth and give

water in small sips to drink. DO NOT induce vomiting unless directed to do so by

a physician or poison control center. Never give anything by mouth to an

unconscious person. Do not leave victim unattended.

Inhalation: Move 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 physician or poison control center immediately.

### **Notes to Physician**

Treatment: There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

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### **SECTION 5. FIRE FIGHTING MEASURES**

Flash point: not applicable

Suitable Extinguishing Media: Water, Carbon dioxide (CO2), Dry chemical, Foam

**Fire Fighting Instructions:** Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Personal Precautions:** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods for Cleaning Up:** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. **Additional Advice:** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

#### **SECTION 7. HANDLING AND STORAGE**

**Handling Procedures:** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Storing Procedures:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**Work/Hygienic Procedures:** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Wash thoroughly and put on clean clothing.

**Min/Max Storage Temperatures:** Recommended maximum transport/storage temperature: 38 °C / 100 °F The 30-day storage temperature average must not exceed the recommended maximum.

### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Train employees in safe use of the product. Follow all label instructions.

**Eye/Face Protection:** Tightly fitting safety goggles

Hand Protection: Chemical resistant nitrile rubber gloves

**Body Protection:** Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory Protection: When respirators are required, select NIOSH approved equipment based on

actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Exposure Limits:** 

Quartz (Silica, 14808-60-7 ACGIH TWA 0.025 mg/m3 Crystalline)

FC

Form of exposure

NIOSH REL

Form of exposure

OSHA Z1A

TWA

Cost a synapsys of exposure

Respirable fraction.

0.05 mg/m3

Respirable dust.

0.1 mg/m3

Form of exposure Respirable dust.

Z3 TWA 2.4 millions of particles

per cubic foot of air

Form of exposure Respirable.
Remarks The exposu

The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

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(Exposure limits continued) Z3 TWA 0.1 mg/m3

Form of exposure Respirable.

Remarks The exposure limit is

calculated from the equation, 10/(%Si02+2), using a value of 100% Si02. Lower

percentages of Si02 will yield higher exposure limits.

Z3 TWA 0.3 mg/m3

Form of exposure Total dust.

Remarks The exposure limit is

calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher

exposure limits.

US CA OEL TWA PEL 0.1 mg/m3 Form of exposure Respirable dust.

US CA OEL TWA PEL 0.3 mg/m3

Form of exposure Total dust.

TX ESL ST ESL 1 ug/m3
TX ESL ST ESL 1 ug/m3

Form of exposure Respirable.

TX ESL AN ESL 0.1 ug/m3
TX ESL AN ESL 0.1 ug/m3

Form of exposure Respirable.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** grey

Physical State: solid granular

Odor: none

**Bulk Density:** 55 - 60 lb/ft3 (loose)

Water solubility: insoluble

### SECTION 10. STABILITY AND REACTIVITY Conditions to Avoid: Heat, flames and sparks.

Conditions to Avoid. Theat, fiames and sparks.

Hazardous Decomposition Products: Hydrogen chloride (HCI) Hydrogen cyanide (hydrocyanic acid)

Carbon dioxide (CO2) Nitrogen oxides (NOx)

Hazardous Reactions: Stable under recommended storage conditions.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Only an acute eye irritation study has been performed on this product as formulated. All other acute toxicity data have been bridged from a similar granular formulation containing a higher percentage of the active ingredient, imidacloprid. The non-acute information pertains to the technical-grade active ingredient.

**Acute Oral Toxicity:** male/female combined rat: LD50: > 4,820 mg/kg **Acute Dermal Toxicity:** male/female combined rabbit: LD50: > 2,000 mg/kg

male/female combined rat: LC50: > 5.09 mg/l Exposure time: 4 h

Determined in the form of dust. (actual)

male/female combined rat: LC50: > 20 mg/l Exposure time: 1 h

Determined in the form of dust.

Extrapolated from the 4 hr LC50.(actual)

**Skin Irritation:** rabbit: No skin irritation. **Eye Irritation:** rabbit: Mild eye irritation. **Sensitization:** guinea pig: Non-sensitizing.

Chronic Toxicity: Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.

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Assessment Carcinogenicity: Imidacloprid was not carcinogenic in studies in rats and mice.

ACGIH: Quartz (Silica, Crystalline) 14808-60-7 Group A2

NTP: None.

IARC: Quartz (Silica, Crystalline) 14808-60-7 Overall evaluation: 1

OSHA: None.

**Reproductive & Developmental Toxicity:** 

REPRODUCTION: Imidacloprid was not a reproductive toxicant in a multi generation study in rats.

**DEVELOPMENTAL TOXICITY:** Imidacloprid is not considered a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses that caused maternal toxicity.

**Neurotoxicity:** Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues. **Mutagenicity:** Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

### **SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Precautions:** Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations. If burned, stay out of smoke.

#### **SECTION 14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:** Not regulated for Domestic Surface Shipment

FREIGHT CLASSIFICATION: Pesticides, N.O.I.,

### **SECTION 15. REGULATORY INFORMATION**

**US Federal Regulations:** 

TSCA list: Quartz (Silica, Crystalline) 14808-60-7

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D):

None.

SARA Title III - Section 302 - Notification and Information: None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting: None.

**US States Regulatory Reporting:** CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive

US State Right-To-Know Ingredients: Quartz (Silica, Crystalline)

14808-60-7 IL, MA, MN

**Canadian Regulations:** 

Canadian Domestic Substance List: Quartz (Silica, Crystalline) 14808-60-7

### Environmental: CERCLA: None.

Clean Water Section 307 Priority Pollutants: None.

Safe Drinking Water Act Maximum Contaminant Levels: None.

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 1 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard