



# MATERIAL SAFETY DATA SHEET

**OHP, INC.**  
 P.O. BOX 230, MAINLAND, PA 19451  
 800-659-6745

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**TRANSPORTATION EMERGENCY**  
 CHEMTREC . . . . . (800)-424-9300

**EMERGENCY AND PRODUCT INFORMATION**  
 OHP, Inc. . . . . (800)-356-4647

## MARATHON® 1% GRANULAR GREENHOUSE & NURSERY INSECTICIDE

EPA Registration Number: 432-1329-59807

### I. CHEMICAL PRODUCT INFORMATION

**PRODUCT NAME** . . . . .: Marathon 1% Granular Greenhouse & Nursery Insecticide  
**CHEMICAL FAMILY** . . . . .: Chloronicotinyl  
**CHEMICAL NAME** . . . . .: 1-((6-chloro-3-pyridinyl)methyl)-N-nitro-2-imidazoindinimine  
**SYNONYMS** . . . . .: Imidacloprid  
**EPA Registration No.** . . . . .: 432-1329-59807  
**Formula** . . . . .: C9 H10 C1 N5 O2  
**PRODUCT USE** . . . . .: Insecticide for systemic insect control on ornamental plants in greenhouses, nurseries and interior landscapes.

The respirable portion of the silica that may be contained in this product, however, is small, such that excessive inhalation exposure during anticipated conditions of use is unlikely.

### MEDICAL CONDITIONS

**AGGRAVATED BY EXPOSURE** . . . . .: No specific medical conditions are known which may be aggravated by exposure to this product. Pulmonary and respiratory diseases may be aggravated by exposure to respirable crystalline silica.

### II. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component Name /CAS No.	Concentration % by Weight	
	Minimum	Maximum
<b>Imidacloprid Technical</b> 138261-41-3	0.8000	1.2000
<b>Crystalline Silica (Quartz)</b> 14808-60-7		8.9300

### IV. FIRST AID MEASURES

**General** . . . . .: Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Eye** . . . . .: 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.

**Skin** . . . . .: Take off contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.

**Ingestion** . . . . .: 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 directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

**Inhalation** . . . . .: Move to fresh air. Call a poison control center or doctor for further treatment advice.

**Note to Physician**  
**Treatment** . . . . .: There is no antidote. Treat symptomatically.

### III. HAZARDS IDENTIFICATION

**NOTE:** Please refer to Section XI for detailed toxicological information.

**Emergency Overview** . . . . .: Caution! Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes and clothing.

**Physical State** . . . . .: Solid Granular  
**Appearance** . . . . .: Tan to Red  
**Routes of Exposure** . . . . .: Inhalation, Skin contact, Skin Absorption, Eye contact

### IMMEDIATE EFFECTS

**Eye** . . . . .: Causes eye irritation. Do not get in eyes.

**Skin** . . . . .: Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing.

**Ingestion** . . . . .: Harmful if swallowed. Do not take internally.

**Inhalation** . . . . .: Maybe harmful if inhaled. Avoid breathing dust.

### 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.

### V. FIRE FIGHTING MEASURES

**Flash point** . . . . .: Not applicable  
**Suitable Extinguishing Media** . . . . .: Water, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

**Fire Fighting Instructions** . . . . .: Keep out of smoke. Cool closed containers exposed to fire with water spray. Fight fire from upwind position. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

Wear self-contained breathing apparatus and protective suit.

### VI. ACCIDENTAL RELEASE MEASURES

**General and Disposal** . . . . .: Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

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**Land Spill or Leaks** . . . . . : Avoid dust formation. Use recommended protective equipment while carefully sweeping up spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways.

### VII. HANDLING AND STORAGE

**Handling Procedures** . . . . . : Handle and open container in a manner as to prevent spillage.

**Storing Procedures** . . . . . : Do not contaminate water, food, or feed by storage or disposal.

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

**Work/Hygienic Procedures** . . . . . : Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then 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. As soon as practical, wash thoroughly and change into clean clothing.

**Min / Max Storage Temperatures** . . . : No minimum / 30 day average temperature not to exceed 37.8° C (100° F)

### VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls** . . . . . : Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

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

**Hand Protection** . . . . . : Chemical resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride.

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

**Respiratory Protection** . . . . . : When respiratory protection is necessary under the conditions of use, wear a respirator approved by the National Institute for Occupational Safety and Health (NIOSH).

**General Protection** . . . . . : Educate and train employees in safe use of the product.

Follow all label instructions.

### Exposure Limits

Crystalline Silica (Quartz)	14808-60-7	NIOSH REL	0.05 mg/m3
Form of Exposure		Respirable dust	
OSHA ZIA		TWA	0.1 mg/m3
Form of Exposure		Respirable dust	
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	
ACGIH		TWA	0.05 mg/m3
Form of Exposure		Respirable fraction	
OSHA ZI		PEL	5.0 mg/m3
Form of Exposure		Respirable fraction	
OSHA ZI		PEL	15.0 mg/m3
Form of Exposure		Total dust	
ACGIH NIC		TWA	0.025 mg/m3
Form of Exposure		Respirable fraction	

### IX. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** . . . . . : Tan to Red  
**Physical State** . . . . . : Solid Granular  
**Bulk Density** . . . . . : 40-48 lbs/cu ft.  
**Water Solubility** . . . . . : Slightly soluble

### X. STABILITY AND REACTIVITY

**Chemical Stability** . . . . . : Stable  
**Conditions to Avoid** . . . . . : Elevated temperatures.

#### Hazardous Decomposition Products:

Hydrogen chloride (HCl)  
Hydrogen cyanide (hydrocyanic acid)  
Nitrogen oxides (NOx)  
Carbon monoxide

**Hazardous Polymerization** . . . . . : Will not occur.  
**(Conditions to Avoid)**

### XI. TOXICOLOGICAL INFORMATION

Acute toxicity studies have not been conducted on this product as formulated. The acute toxicity data have been extrapolated from studies performed on similar products, Imidacloprid 2.5% Granular (oral LD50, dermal LD50, inhalation LC50, skin effects and sensitization) and Imidacloprid 0.62% Granular (eye effects). The non-acute information pertains to the active ingredient, imidacloprid technical.

**Acute Oral Toxicity** . . . . . : Male/Female Rat:  
LD50: > 4,820 mg/kg

**Acute Dermal Toxicity** . . . . . : Male/Female Rat:  
LC50: > 2,000 mg/kg

**Acute Inhalation Toxicity** . . . . . : Male/Female Rat:  
LC50: > 5.09 mg/L  
Exposure time: 4 h  
Determined in the form of dust.  
(analytical)

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Male/Female Rat:  
LC50: 20 mg/L  
Exposure time: 1 h  
Determined in the form of dust.  
Extrapolated from the 4 hr LC50.  
(analytical)

**Skin Irritation** . . . . . : Rabbit: non-irritant  
**Eye Irritation** . . . . . : Rabbit: Mild eye irritation  
**Sensitization** . . . . . : Guinea pig: non-sensitizing  
**Sub Chronic Toxicity** . . . . . : In a 3-week dermal toxicity study, rabbits treated with imidacloprid showed no local or systemic effects at levels up to and including 1000 mg/kg, the limit dose.

In a 4-week inhalation study, rats exposed to high concentrations of imidacloprid exhibited decreased body weight gains and changes in clinical chemistries and organ weights.

**Chronic Toxicity** . . . . . : In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroids and/or liver.

**Assessment Carcinogenicity** . . . : In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

### ACGIH

Crystalline Silica (Quartz) 14808-60-7 Group A2

### NTP

Crystalline Silica (Quartz) 14808-60-7

### IARC

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

### OSHA

None

### Reproductive &

**Developmental Toxicity** . . . . . : REPRODUCTION: In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

DEVELOPMENTAL TOXICITY: In developmental toxicity studies in rats and rabbits, there was no evidence of an embryotoxic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

**Neurotoxicity** . . . . . : In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes observed in the neural tissues.

In a one-generation developmental neurotoxicity screening study in rats, offspring exposed to imidacloprid showed decreased motor activities. These effects occurred at the highest dose tested and in conjunction with maternal toxicity. There were no correlating morphological changes observed in the neural tissues.

**Mutagenicity** . . . . . : The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

## XII. ECOLOGICAL INFORMATION

**Environmental Precautions** . . . . : Highly toxic to aquatic invertebrates. 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.

**Ecological Information** . . . . . : This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

## XIII. DISPOSAL CONSIDERATIONS

**General Disposal Guidance** . . . . : Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.

**Container Disposal** . . . . . : Empty remaining contents. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**RCRA Classification** . . . . . : Not Regulated under this Statute

## XIV. TRANSPORT INFORMATION

DOT CLASSIFICATION: . . . . . : Not regulated for Domestic Surface Transportation

FREIGHT CLASSIFICATION: . . . . . : Insecticides or Fungicides, N.O.I., other than poison

## XV. REGULATORY INFORMATION

**EPA Registration No.** . . . . . : 432-1329-59807

### US Federal Regulations

#### TSCA list

Crystalline Silica 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 contains a chemical known to the state of California to cause cancer.

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

### US State right-to-know ingredients

Crystalline Silica (Quartz) 14808-60-7 IL,MA,MN,PA

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### Canadian Regulations

#### Canadian Domestic Substance List

Crystalline Silica (Quartz) 14808-60-7

### Environmental

#### CERCLA

None

#### Clean Water Section 307 Priority Pollutants

None

#### Safe Drinking Water Act Maximum Contaminant Levels

None

### XVI. OTHER INFORMATION

NFPA 704: (National Fire Protection Agency)

Health	Flammability	Reactivity	Others	
1	1	1	0	None

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

MSDS REVISION INDICATOR: New Format; Updated sections as needed.

Approval Date: 11/17/2004

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