

# MARATHON® 1% GRANULAR GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration Number: 432-1329-59807

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Trade name** . . . . .: MARATHON® 1%  
GRANULAR GREENHOUSE AND NURSERY  
INSECTICIDE

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

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

**Use** . . . . .: Insecticide

**Restrictions on use** . . . . .: See product label for restrictions.

**Company information** . . . . .: OHP, Inc.  
PO Box 51230  
Mainland, PA 19451  
(800) 659-6745

### TRANSPORTATION EMERGENCY

**(24 hours a day) call** . . . . .: Chemtrec:  
1-800-424-9300

**MEDICAL EMERGENCY (24 hours a day) and Product Information call** . . .: 1-800-356-4647

### SDS Information or

**Request** . . . . .: ohp.com

## 2. HAZARDS IDENTIFICATION

**Classification in accordance with regulation HCS 29CFR §1910.1200**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Other hazards** . . . . .: No particular hazards known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Imidacloprid	138261-41-3	1.00
Crystalline quartz (respirable)	14808-60-7	7.40

## 4. FIRST AID MEASURES

### Description of first aid measures

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

**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.

**Skin contact** . . . . .: 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.

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

**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.

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

**Symptoms** . . . . .: To date no symptoms are known.

### Indication of any immediate medical attention and special treatment needed

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

## 5. FIREFIGHTING MEASURES

### Extinguishing media

**Suitable** . . . . .: Water, Carbon dioxide (CO2), Dry chemical, Foam

**Unsuitable** . . . . .: None known.

**Special hazards arising from the substance or mixture** : Dangerous gases are evolved in the event of a fire.

*FIREFIGHTING MEASURES continued next page*

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**FIREFIGHTING MEASURES** *continued*

**Advice for firefighters**

**Special protective equipment for**

**fire-fighters** . . . . . : Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** . . . . . : Keep out of smoke.

Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** . . . . . : not applicable

**Autoignition temperature** . . . . . : no data available

**Lower explosion limit** . . . . . : not applicable

**Upper explosion limit** . . . . . : not applicable

**Explosivity** . . . . . : no data available

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

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

**Methods and materials for containment and cleaning up**

**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.

**Reference to other sections** . . . . . : Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** . . . : 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.

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

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

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage**

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

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	5ug/m3 (AN ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	50ug/m3 (ST ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	0.7mg/m3 (TWA)		OES BCS*
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m3 (TWA)	1998	JO TLV
Crystalline quartz (respirable) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	14ug/m3 (ST ESL)	02 2013	TX ESL

*Control parameters chart continued next page*

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*Control parameters chart continued*

Components	CAS-No.	Control parameters	Update	Basis
Crystalline quartz (respirable) (Particulate.)	14808-60-7	0.27ug/m3 (AN ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Crystalline quartz (respirable)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA)	2000	Z3

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**Exposure controls**
**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**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.

**Hand protection** . . . . . : Chemical resistant nitrile rubber gloves

**Eye protection** . . . . . : Safety glasses with side-shields

**Skin and body protection** . : Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures** . . . . . : 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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** . . . . . : brown
- Physical State** . . . . . : granular
- Odor** . . . . . : mild
- Odour Threshold** . . . . . : no data available
- pH** . . . . . : no data available
- Vapor Pressure** . . . . . : no data available
- Vapor Density (Air = 1)** . . . . : no data available
- Bulk density** . . . . . : 577 - 673 kg/m3  
ca. 36 - 42 lb/ft<sup>3</sup>
- Evaporation rate** . . . . . : not applicable
- Boiling Point** . . . . . : not applicable
- Melting / Freezing Point** . . . : not applicable
- Water solubility** . . . . . : slightly soluble
- Decomposition temperature** . . . . . : no data available
- Partition coefficient: n-octanol/ water** . . . . . : no data available
- Viscosity** . . . . . : not applicable
- Flash point** . . . . . : not applicable
- Autoignition temperature** . . . : no data available
- Lower explosion limit** . . . . . : not applicable
- Upper explosion limit** . . . . . : not applicable
- Explosivity** . . . . . : no data available

**10. STABILITY AND REACTIVITY**

- Reactivity**
- Thermal decomposition** . . . : no data available
- Chemical stability** . . . . . : Stable under recommended storage conditions.
- Possibility of hazardous reactions** . . . . . : No dangerous reaction known under conditions of normal use.
- Conditions to avoid** . . . . . : Elevated temperatures
- Incompatible materials** . . . . : no data available
- Hazardous decomposition products** . . . . . : No decomposition products expected under normal conditions of use.

**STABILITY AND REACTIVITY** continued next page

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**11. TOXICOLOGICAL INFORMATION**
**Exposure routes** . . . . .: Eye contact, Skin  
 Absorption, Ingestion, Inhalation

**Immediate Effects**
**Eye** . . . . .: Causes eye irritation.

**Skin** . . . . .: Harmful if absorbed  
 through skin.

**Ingestion** . . . . .: Harmful if swallowed.

**Inhalation** . . . . .: May be harmful if  
 inhaled.

**Information on toxicological effects**
**Acute oral toxicity** LD50 (rat) > 4,820 mg/kg

**Acute inhalation toxicity** LC50 (rat) > 5.1 mg/l  
 Exposure time: 4 h  
 Determined in the form of  
 dust.

 LC50 (rat) > 20 mg/l  
 Exposure time: 1 h  
 Determined in the form of  
 dust.  
 Extrapolated from the 4 hr  
 LC50.

**Acute dermal toxicity** LD50 (rabbit)  
 > 2,000 mg/kg

**Skin irritation** No skin irritation (rabbit)

**Eye irritation** Mild eye irritation.  
 (rabbit)

**Sensitisation** Non-sensitizing.  
 (guinea pig)

**Assessment repeated dose toxicity**

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**Assessment Carcinogenicity**

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

 Crystalline quartz  
 (respirable) 14808-60-7 Group A2

**NTP**

 Crystalline quartz  
 (respirable) 14808-60-7 2000

**IARC**
**Crystalline quartz  
 (respirable)** 14808-60-7 Overall evaluation: 1

**OSHA** None.

**Assessment toxicity to reproduction**

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.

**Assessment developmental toxicity**

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

**Further information**

Acute toxicity studies have been bridged from a similar formulation(s).

The non-acute information pertains to the active ingredient(s).

**12. ECOLOGICAL INFORMATION**
**Toxicity to fish** LC50 (Oncorhynchus  
 mykiss (rainbow trout))  
 211 mg/l  
 Exposure time: 96 h

The value mentioned relates to the active ingredient imidacloprid.

**Toxicity to aquatic invertebrates**

 EC50 (Water flea  
 (Daphnia magna))  
 85 mg/l  
 Exposure time: 48 h

The value mentioned relates to the active ingredient imidacloprid.

 LC50 (Chironomus  
 riparius (non-biting  
 midge)) 0.0552 mg/l  
 Exposure time: 24 h

The value mentioned relates to the active ingredient imidacloprid.

**ECOLOGICAL INFORMATION continued next page**

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**ECOLOGICAL INFORMATION** *continued*

**Toxicity to aquatic plants** EC50 (Desmodosmus subspicatus) > 10 mg/l  
Growth rate;  
Exposure time: 72 h  
The value mentioned relates to the active ingredient imidacloprid.

**Biodegradability** Imidacloprid: ; not rapidly biodegradable

**Koc** Imidacloprid: Koc: 225

**Bioaccumulation** Imidacloprid: ; Does not bioaccumulate.

**Mobility in soil** Imidacloprid: Moderately mobile in soils

**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.  
  
Apply this product as specified on the label.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product** . . . . . : Dispose in accordance with all local, state/provincial and federal regulations.  
  
Follow advice on product label and/or leaflet.  
  
Never place unused product down any indoor or outdoor drain.

**Contaminated packaging** . . . : Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.  
  
If burned, stay out of smoke.

**RCRA Information** . . . . . : Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

**14. TRANSPORT INFORMATION**

**49CFR** . . . . . : Not dangerous goods / not hazardous material

**IMDG**

UN number 3077  
Class 9  
Packaging group III  
Marine pollutant YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE)

**IATA**

UN number 3077  
Class 9  
Packaging group III  
Environm. Hazardous Mark YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

**15. REGULATORY INFORMATION**

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**US Federal Regulations TSCA list**  
Crystalline quartz (respirable) 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.

*REGULATORY INFORMATION continued next page*

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**US States Regulatory Reporting CA Prop65**

This product contains a chemical known to the State of California to cause cancer.

Crystalline quartz (respirable) 14808-60-7

**US State Right-To-Know Ingredients**Crystalline quartz (respirable) 14808-60-7  
MN**Canadian Regulations****Canadian Domestic Substance List**

Crystalline quartz (respirable) 14808-60-7

**Environmental****CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations****European Inventory of Existing Commercial Substances (EINECS)**

Crystalline quartz (respirable) 14808-60-7

**EPA/FIFRA 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 required on the pesticide label:

**Signal word** . . . . .: Caution!**Hazard statements** . . . . .: Harmful if swallowed or absorbed through skin.

Causes eye irritation.

Avoid contact with skin, eyes and clothing.

**16. OTHER INFORMATION****NFPA 704 (National Fire Protection Association):**Health - 1                      Flammability - 1  
Instability - 0                Others - none**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**Health - 1                      Flammability - 1  
Physical Hazard - 0        PPE -

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

**Reason for Revision** . . . . .: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)**Revision Date** . . . . .: 10/02/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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