

MARATHON® 1% GRANULAR GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration Number: 59807-15

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

Trade name MARATHON® 1%
GRANULAR GREENHOUSE AND NURSERY
INSECTICIDE

EPA Registration No. 59807-15

**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 treat-
ment.

Inhalation Move to fresh air. If per-
son is not breathing, call 911 or an ambulance, then
give artificial respiration, preferably mouth-to-mouth
if possible. Call a physician or poison control cen-
ter immediately.

Skin contact Take off contaminated
clothing and shoes immediately. Wash off immedi-
ately 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. Re-
move contact lenses, if present, after the first 5 min-
utes, then continue rinsing eye. Call a physician or
poison control center immediately.

Ingestion Call a physician or poi-
son control center immediately. Rinse out mouth
and give water in small sips to drink. DO NOT in-
duce vomiting unless directed to do so by a physi-
cian 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 pa-
tient's condition is recommended. There is no spe-
cific 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

Autolignition temperature: no data available

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Explosivity: no data available

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.

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.

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/ft³

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 (Desmodemus 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

EPA Registration No.	59807-15
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*

MARATHON® 1% GRANULAR GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration Number: 59807-15
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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