

MARATHON[®] 1% GRANULAR

EPA Registration Number: 59807-15

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

Trade name : MARATHON[®] 1%
GRANULAR

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 746
Bluffton, SC 29910-0746
(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/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 (Desmododesmus 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

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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: Update OHP, Inc. address.

Revision Date: 02/10/2020

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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