

MARATHON® II GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration Number: 432-1369-59807

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

Product identifier

Trade name : MARATHON® II
GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration No. : 432-1369-59807

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

Eye irritation : Category 2B

Signal word : Warning

Hazard statements : Causes eye irritation.

Precautionary statements

Wash thoroughly after handling.

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists : Get medical advice/attention.

Other hazards : No other hazards known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by weight
Imidacloprid	138261-41-3	21.40
Glycerine	56-81-5	10.00

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.

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5. FIREFIGHTING MEASURES
Extinguishing media
Suitable : Water spray, Foam, Carbon dioxide (CO2), Dry chemical

Unsuitable : None known.

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 : > 93 °C

Autoignition temperature . . : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Explosivity : not applicable

Dust explosion class : Not applicable.

6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective equipment and emergency procedures
Precautions : Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up
Methods for cleaning up . . . : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. 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 and 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	0.7 mg/m3 (TWA)		OES BCS*
Imidacloprid	138261-41-3	5ug/m3 (AN ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	50ug/m3 (ST ESL)	07 2011	TX ESL
Glycerine (Total dust.)	56-81-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (TWA)	1989	OSHA Z1A

EXPOSURE CONTROLS / PERSONAL PROTECTION continued next page

MARATHON® II GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration Number: 432-1369-59807
Control parameters *continued*

Components	CAS-No.	Control parameters	Update	Basis
Glycerine (Total dust.)	56-81-5	10 mg/m ³ (TWA)	1989	OSHA Z1A
Glycerine (Total dust and mist.)	56-81-5	10 mg/m ³ (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction and dust or fume.)	56-81-5	5 mg/m ³ (TWA)	06 2008	TN OEL
Glycerine (Particulate.)	56-81-5	50ug/m ³ (ST ESL)	02 2013	TX ESL
Glycerine (Particulate.)	56-81-5	5ug/m ³ (AN ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	100ug/m ³ (AN ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	1000ug/m ³ (ST ESL)	02 2013	TX ESL

*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 : Tightly fitting safety goggles

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 : white to light beige

Physical State : liquid suspension

Odor : mild

Odour Threshold : no data available

pH : 7.5

Vapor Pressure : no data available

Vapor Density (Air = 1) : no data available

Density : 1.12 g/cm³ at 20 °C

Evaporation rate : no data available

Boiling Point : no data available

Melting / Freezing Point . . . : -6.7 °C / 19.9 °F

Water solubility : dispersible

Minimum Ignition Energy . . . : not applicable

Decomposition temperature : no data available

Partition coefficient: n-octanol/water : no data available

Viscosity : 350 - 600 mPa.s

Flash point : > 93 °C

Autoignition temperature . . . : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Explosivity : not applicable

Dust explosion class : Not applicable.

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 : freezing

Incompatible materials : no data available

Hazardous decomposition products : No decomposition products expected under normal conditions of use.

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11. TOXICOLOGICAL INFORMATION

Exposure routes: Ingestion, Skin Absorption, Eye contact, Inhalation

Immediate Effects

Eye: May cause mild irritation to eyes.

Skin: May cause slight irritation. Harmful if absorbed through skin.

Ingestion.: Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity: LD50 (male rat) > 4,870 mg/kg
LD50 (female rat) 4,143 mg/kg

Acute inhalation toxicity: LC50 (male/female combined rat) > 5.33 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol. (actual)
LC50 (male/female combined rat) > 20 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50. (actual)

Acute dermal toxicity: LD50 (male/female combined rabbit) > 2,000 mg/kg

Skin irritation: No skin irritation (rabbit)

Eye irritation.: Minimally irritating. (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: None.

NTP: None.

IARC: None.

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

Only acute toxicity studies have been performed on the formulated product.

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

12. ECOLOGICAL INFORMATION

Toxicity to fish: LC50 (Rainbow trout (Oncorhynchus mykiss))
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

MARATHON® II GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration Number: 432-1369-59807

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.
Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product : Do not contaminate water, food, or feed by disposal.
Dispose in accordance with all local, state/provincial and federal regulations.

Contaminated packaging : Do not re-use empty containers.
Triple rinse containers.
Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning.
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 : 3082

Class : 9

Packaging group : III

Marine pollutant : YES

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

IATA

UN number : 3082

Class : 9

Packaging group : III

Environm. Hazardous Mark: YES

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

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. : 432-1369-59807

US Federal Regulations

TSCA list
Glycerine 56-81-5

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.

REGULATORY INFORMATION continued next page

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EPA Registration Number: 432-1369-59807

REGULATORY INFORMATION *continued*

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

US State Right-To-Know Ingredients

Glycerine 56-81-5 MN

Canadian Regulations**Canadian Domestic Substance List**

Glycerine 56-81-5

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)**

Glycerine 56-81-5

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: Hazard to humans and domestic animals.

Keep out of reach of children and animals.

Harmful if swallowed or absorbed through skin.

Avoid contact with skin, eyes and clothing.

Avoid breathing spray mist.

16. OTHER INFORMATION**NFPA 704 (National Fire Protection Association):**

Health - 1 Flammability - 1 Instability - 1 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 1 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: 03/07/2014

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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