



MATERIAL SAFETY DATA SHEET

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TRANSPORTATION EMERGENCY
CHEMTREC (800)-424-9300

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

MARATHON® 60 WP GREENHOUSE and NURSERY INSECTICIDE in WATER SOLUBLE PACKAGING

EPA Registration Number: 432-1361-59807

I. CHEMICAL PRODUCT INFORMATION

PRODUCT NAME: Marathon 60 WP Greenhouse
and Nursery Insecticide in Water Soluble Packaging
CHEMICAL FAMILY: Chloronicotinyl
CHEMICAL NAME: 1-((6-chloro-3-
pyridinyl)methyl)-N-nitro-2-imidazolidinimine
SYNONYMS: Imidacloprid
EPA Registration No.: 432-1361-59807
PRODUCT USE: Insecticide for systemic
insect control on ornamental and vegetable plants in green
houses, nurseries, and interior plantscapes.

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. Never
give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. If person is not
breathing, call 911 or an ambulance, then give artificial respira-
tion, preferably mouth-to-mouth if possible. Call a poison control
center or doctor for treatment advice.

Note to Physician
Treatment: There is no antidote. Treat symptom-
atically.

II. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component Name /CAS No.	Concentration % by Weight	
	Minimum	Maximum
Imidacloprid Technical 138261-41-3	58.2000	61.8000
Crystalline silica (Quartz) 14808-60-7		0.9120

V. FIRE FIGHTING MEASURES

Flash point: Not applicable
Suitable Extinguishing Media: Water, Carbon dioxide (CO₂),
Foam, Dry chemical

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

In the event of fire, wear self-contained breathing apparatus.

III. HAZARDS IDENTIFICATION

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

Emergency Overview: Caution! Harmful if swallowed,
inhaled or absorbed through the skin. Causes eye irritation.
Avoid contact with skin, eyes and clothing. Avoid breath-
ing dust or vapor.

Physical State: Solid powder
Appearance: Light grey
Routes of Exposure: Ingestion, Eye contact, Skin Ab-
sorption, Inhalation

VI. ACCIDENTAL RELEASE MEASURES

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

Land Spill or Leaks: Avoid dust formation. Avoid
breathing dust. Avoid contact with skin and eyes. Use recom-
mended protective equipment while carefully sweeping up
spilled material. Place in covered container for reuse or dis-
posal. 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. Con-
taminated soil may have to be removed and disposed. Do not
allow material to enter streams, sewers, or other waterways or
contact vegetation.

IMMEDIATE EFFECTS

Eye: Causes eye irritation. Do not get in
eyes.
Skin: Harmful if absorbed through skin.
Avoid contact with skin and clothing
Ingestion: Harmful if swallowed. Do not take
internally.
Inhalation: Harmful if inhaled. Avoid breathing
dust or vapor.

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.

VII. HANDLING AND STORAGE

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

Do not freeze.

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

OSHA ZI	PEL	15.0 mg/m3
Form of Exposure	Total dust	
ACGIH NIC	TWA	0.025 mg/m3
Form of Exposure	Respirable fraction	

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 . . : Do not transport or store below 0° C / 32° F.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Light grey
Physical State : Solid powder
pH : 8.3 Determined as a 1% suspension in distilled water.
Bulk Density : 0.45 g/mL
Water Solubility : Dispersible

X. STABILITY AND REACTIVITY

Chemical Stability : Stable under recommended storage conditions.
Incompatibility : Not known.
Hazardous Products Decomposition : Proposed compounds due to fire or other extreme conditions:

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

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

XI. TOXICOLOGICAL INFORMATION

Acute toxicity studies have not been conducted on this product as formulated. The acute toxicity data provided has been bridged from a similar product containing a higher percentage of the active ingredient, imidacloprid. The non-acute information pertains to imidacloprid technical.

Acute Oral Toxicity : Male Rat: LD50: 2,591 mg/kg
Female Rat: LD50: 1,858 mg/kg

Acute Dermal Toxicity : Male/Female Rat:
LD50: > 2,000 mg/kg

Acute Inhalation Toxicity : Male Rat:
LC50: 2.65 mg/L
Exposure time: 4 h
Determined in the form of liquid aerosol. (actual)

Female Rat: LC50: 2.75 mg/L
Exposure time: 4 h
Determined in the form of liquid aerosol. (actual)

Male Rat: LC50: 10.6 mg/L
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 h LC50. (actual)

Female Rat: LC50: 11.0 mg/L
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 h LC50. (actual)

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Eye/Face Protection : Tightly fitting safety goggles.

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

Chemical-resistant gloves (barrier laminate such as Silver Shield, butyl rubber nitrile rubber or Viton)

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.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Limits

Crystalline Silica 14808-60-7 NIOSH REL 0.05 mg/m3 (Quartz)

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	

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Skin Irritation : Rabbit: Slight irritation
Eye Irritation : Rabbit: Minimal 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 oncongenicity 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.

DEVELOPEMENTAL 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.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

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 : Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal : After the water soluble packet(s) have been put into the mix tank, dispose of empty box 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

TRANSPORTATION CLASSIFICATION: : Not regulated for transportation

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

XV. REGULATORY INFORMATION

EPA Registration No. : 432-1361-59807

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 does not contain any substances known to the state of California to cause cancer.

Crystalline Silica (Quartz) 14808-60-7

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

Canadian Regulations

Canadian Domestic Substance List

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Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

XVI. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
NFPA	1	1	1	0

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

MSDS REVISION INDICATOR: New Material Safety Data Sheet

Approval Date: 11/16/2004

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