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MATERIAL SAFETY DATA SHEET

OHP, INC.

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800-659-6745

Rev. Date: 06/14/2006
Approval Date: 04/05/2005
Supersedes:

TRANSPORTATION EMERGENCY

CHEMTREC: (800)-424-9300

EMERGENCY AND PRODUCT INFORMATION

OHP, Inc.: (800)-356-4647

MARATHON® II GREENHOUSE and NURSERY INSECTICIDE

EPA Registration Number: 432-1369-59807

I. CHEMICAL PRODUCT INFORMATION

PRODUCT NAME MARATHON II Greenhouse and Nursery Insecticide
CHEMICAL FAMILY Chlornicotinyl
SYNOMYS Clmidacloprid
EPA Registration No. 432-1369-59807
PRODUCT USE Broad spectrum systemic insecticide for use in a variety of indoor and outdoor applications.

II. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS No.	Average % by Weight
Imidacloprid	138261-41-3	21.40

III. HAZARDS IDENTIFICATION

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

Emergency Overview Caution! Hazard to humans and domestic animals. Harmful if swallowed, or absorbed through skin. Keep out of reach of children and animals.

Physical State Viscous Liquid Suspension
Odor Mild
Appearance Off-white
Routes of Exposure Inhalation, skin contact, skin absorption ..

IMMEDIATE EFFECTS

Eye May cause eye irritation. Eye injury may persist for severral days.
Skin Harmful if absorbed through skin. No skin irritation. Non-sensitizing.
Ingestion Harmful if swallowed.
Inhalation Harmful if inhaled.

CHRONIC OR DELAYED

LONG-TERM This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE No specific medical conditions are known which may be aggravated by exposure to this product.

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.

Skin Take off contaminated clothing and shoes immediately. Wash off 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. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation Remove 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.

Note to Physician

Treatment There is no antidote. Treat symptomatically.

V. FIRE FIGHTING MEASURES

Flash point > 93° C / > 199° F
Lower Flammability Limit Not applicable
Upper Flammability Limit Not applicable
Fire and Explosion Hazards May give off poisonous fumes including hydrochloric acid and oxides of nitrogen.
Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Fire Fighting Instructions Keep out of smoke. Cool containers / tanks with spray water. Fight fire from upwind position. Do no allow run-off from fire fighting to enter drains or water courses. Equipment or materials involved in pesticide fires may become contaminated. Wear self-contained breathing apparatus and protective suit.

VI. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up Dike area to prevent runoff. Recover material, if possible. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up and place in appropriate closed container (see Section VII: Handling and Storage). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect and contain contaminated absorbent and dike material for disposal. Do not allow spilt product to enter soil or waterways.

Additional Advice Isolate area and keep unauthorized people away. Avoid breathing vapors and avoid skin contact. Use proper protective equipment to minimize personal exposure (see Section VIII). Contaminated soil may have to be removed and disposed.

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VII. HANDLING AND STORAGE

Handling Procedures : Read label carefully before use. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Storing Procedures : Store in an area that is clean, dry and cool. Store in an area away from food, feedstuffs, fertilizers and seed. Store in an area designated specifically for pesticides.

Work/Hygienic Procedures : 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.

Min/Max Storage Temperatures : No minimum / 30 day average not to exceed 100°F.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Eye/Face Protection : Splash goggles.

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

Body Protection : Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory Protection : No personal respiratory protective equipment normally required. 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.

General Protection : Follow all label instructions. Eye wash facility and safety shower should be available. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water.

Exposure Limits

Glycerine	56-81-5	
ACGIH	TWA	10 mg/m ³
Form of Exposure	Mist.	
OSHA Z1	PEL	5 mg/m ³
Form of Exposure	Respirable fraction.	
OSHA Z1	PEL	15 mg/m ³
Form of Exposure	Total dust.	
OSHA Z1	TWA	5 mg/m ³
Form of Exposure	Respirable fraction.	
OSHA Z1	TWA	10 mg/m ³
Form of Exposure	Total dust.	
US CA OEL	TWA PEL	5 mg/m ³
Form of Exposure	Respirable fraction.	
US CA OEL	TWA PEL	10 mg/m ³
Form of Exposure	Total dust.	

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Off-white
Physical State : Viscous Liquid Suspension
Odor : Mild
pH : 7.5
Specific Gravity : 1.12 at 20° C
Melting / Freezing Point : -6.7° C / 19.9° F
Water Solubility : Dispersible
Viscosity : 350 - 500 mPa.s 25° C

X. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions.
Incompatibility : None known.
Hazardous Decomposition Products : Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x).
Hazardous Reactions : Will not occur.

XI. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the active ingredient, imidacloprid.

Acute Oral Toxicity : Male Rat: LD₅₀: > 4,870 mg/kg
Female Rat: LD₅₀: 4,143 mg/kg

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

Acute Inhalation Toxicity : Male/Female Rat:
LC₅₀: > 5.33 mg/l
Exposure time: 4 h (actual)
Determined in the form of liquid aerosol.

Male/Female Rat:
LC₅₀ > 20 mg/l
Exposure time: 1 h (actual)
Determined in the form of liquid aerosol
Extrapolated from the 4-hr LC₅₀.

Skin Irritation : Rabbit: no skin irritation.

Eye Irritation : Rabbit: Mild irritation to the cornea and conjunctiva was observed with all irritation clearing within 7 days post-treatment. Minimal irritant.

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 oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

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ACGIH None	NTP None	IARC None	OSHA None
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XV. REGULATORY INFORMATION

EPA Registration No.: 432-1369-59807

US Federal Regulations

TSCA list

None

US Toxic Substances Control Act (TSCA) Section 12(b)

Export Notification (40 CFR 707, Dubpt 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.

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

US State right-to-know ingredients

None

Canadian Regulations

Canadian Domestic Substance List

None

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

XVI. OTHER INFORMATION

NFPA	Health	Flammability	Reactivity	Others
	1	1	1	None

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

Reason to Issue: Update format.

Approval Date: 04/05/2005

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

Marathon is a registered trademark of OHP, Inc.

XII. ECOLOGICAL INFORMATION

Environmental Precautions: Extremely toxic to aquatic and estuarine 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. Notify state and/or Federal authorities and OHP, Inc. immediately if you observe any adverse environmental effects due to the use of this product.

This product is highly toxic to bees exposed to direct treatment of 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.

XIII. DISPOSAL CONSIDERATIONS

General Disposal Guidance: Follow container label instructions for disposal of wastes generated during use in compliance with the product label. In other situations, bury in an approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse empty containers. Packaging that cannot be cleaned should be disposed of as product waste.

XIV. TRANSPORT INFORMATION

DOT CLASSIFICATION:: Not regulated for Domestic Surface Transportation.

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