MATERIAL SAFETY DATA SHEET

Rev. Date: 05/29/2012
MSDS Date: 01/12/2007

DISCUS® TABLETS

EPA Registration Number: 432-1457-59807

I. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name . . . . . .: DISCUS TABLETS
Chemical Name . . . . . .: Imidacloprid
Chemical Family . . . . . .: Chloronicotine
EPA Registration No. . . . . . .: 432-1457-59807
Product Use Description . . . . .: Insecticide
Company Name . . . . . .: OHP, INC.
P.O. BOX 230
MAINLAND, PA 19451
(800) 659-6745

TRANSPORTATION EMERGENCY . . . . . .: CHEMTREC:
(800) 424-9300

EMERGENCY (24 hours a day) and PRODUCT INFORMATION . . . . . .: (800) 356-4647

II. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Imidacloprid	138261-41-3	20.00
Copper(II)-sulphate pentahydrate	7758-99-8	0.50

III. HAZARDS IDENTIFICATION

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

EMERGENCY OVERVIEW

Caution! Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing.

Physical State . . . . . .: tablet
Odor . . . . . .: weak characteristic
Appearance . . . . . .: beige to brown
Routes of Exposure . . . . . .: Ingestion, Skin contact, Eye contact

Immediate Effects

Eye . . . . . .: May cause mild irritation to eyes. Avoid contact with eyes.

Skin . . . . . .: May cause slight irritation. Harmful if absorbed through skin. Avoid contact with skin and clothing.

Ingestion . . . . . .: Harmful if swallowed. Do not take internally.

Chronic or Delayed Long-Term

This product or its components may have target organ effects.

Potential Environmental Effect

Highly toxic to bees. Highly toxic to aquatic invertebrates. May cause long-term adverse effects in the aquatic environment.

IV. FIRST AID MEASURES

General . . . . . .: When possible, 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 physician or poison control center immediately.

Skin . . . . . .: 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.

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.

Notes to Physician

Treatment . . . . . .: There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

V. FIRE FIGHTING MEASURES

Fire and Explosion Hazards

In the event of fire the following can be released:
hydrogen chloride (HCl)
Hydrogen cyanide (hydrocyanic acid)
carbon monoxide (CO)
nitrogen oxides (NOx)

Suitable Extinguishing Media

Water spray, Carbon dioxide (CO2), Foam, Sand

Fire Fighting Instructions

Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.
In the event of fire and/or explosion do not breathe fumes. Use breathing apparatus.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions . . . . . .: Avoid contact with spilled product or contaminated surfaces. Wear personal protective equipment. Unprotected persons must be kept away.

Methods for Cleaning Up . . . . .: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional Advice . . . . . .: Information regarding personal protective equipment, see section VIII. Information regarding waste disposal, see section XIII.

VII. HANDLING AND STORAGE

Handling Procedures . . . . . .: Use only in area provided with appropriate exhaust ventilation.

Storing Procedures . . . . . .: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Work/Hygienic Procedures . . . .: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Take off contaminated clothing and shoes immediately. 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 above 50 °C / 122 °F

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection . . . . . .: Follow all label instructions. Train employees in safe use of the product.

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.

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

Eye/Face Protection . . . . . .: Safety glasses

Hand Protection . . . . . .: Chemical resistant nitrile rubber gloves

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

Respiratory Protection . . . . . .: No personal respiratory protective equipment normally required. When respiratory protection is necessary under the conditions of use, wear a NIOSH approved respirator.

Exposure Limits

Copper(II)-sulphate pentahydrate	7758-99-8	NIOSH	REL	1 mg/m3
			Expressed as:	as Cu
			Form of exposure:	Dust and mist.
		ACGIH NIC	TWA	0.05 mg/m3
			Expressed as:	as Cu
			Form of exposure:	Respirable fraction.
		US CA OEL	TWA PEL	1 mg/m3
			Expressed as:	as Cu
			Form of exposure:	Dust and mist.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance . . . . . .: beige to brown

Physical State . . . . . .: tablet

Odor . . . . . .: weak characteristic

X. STABILITY AND REACTIVITY

Chemical Stability . . . . . .: Stable under recommended storage conditions.

Hazardous Reactions . . . . . .: No hazardous reactions when stored and handled according to prescribed instructions.

XI. TOXICOLOGICAL INFORMATION

Acute toxicity data have been bridged from similar formulations containing a higher percentage of the active ingredient, imidacloprid. The non-acute information pertains to the technical-grade active ingredient.

Acute Oral Toxicity
male rat: LD50: 2,591 mg/kg
female rat: LD50: 1,858 mg/kg

Acute Dermal Toxicity
male/female combined rat: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity
male rat: LC50: 2.7 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.

female rat: LC50: 2.8 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.

male rat: LC50: 10.8 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.

female rat: LC50: 11.2 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.

Skin Irritation
rabbit: Slight irritation.

Eye Irritation
rabbit: Minimally irritating.

Sensitization
guinea pig: Non-sensitizing.

Chronic Toxicity
Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.

Assessment Carcinogenicity
Imidacloprid was not carcinogenic in studies in rats and mice.

ACGIH . . . . . .: None.

NTP . . . . . .: None.

IARC . . . . . .: None.

OSHA . . . . . .: None.

Reproductive & Developmental Toxicity

REPRODUCTION: Imidacloprid was not a reproductive toxicant in a multigeneration study in rats.

DEVELOPMENTAL TOXICITY: Imidacloprid is not considered a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses that caused maternal toxicity.

Neurotoxicity . . . . . .: Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.

Mutagenicity . . . . . .: Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

XII. ECOLOGICAL INFORMATION

Toxicity to Fish
Rainbow trout (Oncorhynchus mykiss)
LC50: 211 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient imidacloprid.

Toxicity to Aquatic Plants
Desmodesmus subspicatus
Growth rate
EC50: > 10 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient imidacloprid.

Acute Toxicity to Aquatic Invertebrates
Water flea (Daphnia magna)
EC50: 85 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient imidacloprid.

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

XIII. DISPOSAL CONSIDERATIONS

General Disposal Guidance . . .: Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

Container Disposal . . . . . .: Do not re-use empty containers. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

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. 432-1457-59807

US Federal Regulations

TSCA list
None.

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

Copper(II)-sulphate pentahydrate	7758-99-8	1.0%

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

Copper(II)-sulphate pentahydrate	7758-99-8	CA, CT, IL, MI, NJ, PA

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

Copper(II)-sulphate pentahydrate	7758-99-8	10 lbs

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

XVI. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 1 Others - none

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

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