

NFPA	PPE	
		

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Revision Number: 10

1. PRODUCT AND COMPANY IDENTIFICATION

DECCO

Decco U.S. Post Harvest, Inc.
1713 S. California Ave.
Monrovia, CA 91016-0120

Emergency Telephone Number

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 673-6671 (24hrs)

Company Information

Contact Information

Phone Number

Available Hrs

Decco U.S. Post Harvest, Inc.

Customer Service

626-358-1838

8:00am - 5:00pm (PT)

Product Name

DECCOZIL® EC-289

EPA Reg #

2792-51

Recommended Use

fungicide

Product Code

24-289

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause skin irritation and/or dermatitis

Appearance Clear, Yellow.

Physical State Liquid.

Odor Not available.

Potential Health Effects

Eyes

Direct contact of liquid with the eyes may cause burns or severe irritation with pain, redness, swelling and injury to the cornea.

Skin

May cause skin irritation.

Inhalation

Harmful by inhalation. May cause irritation of respiratory tract.

Ingestion

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Imazalil	35554-44-0	22.2	N/A
Ethoxylated castor oil	61791-12-6	1-50	N/A
Octylphenoxy polyethoxyethanol	9036-19-5	25	N/A
Polyethylene glycol	25322-68-3	1-50	N/A

4. FIRST AID MEASURES

Eye Contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye Call a poison control center or doctor for treatment advice.
Skin Contact	Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call poison control center or doctor for treatment advice.
Inhalation	If breathing is irregular or stopped, administer artificial respiration May cause allergic respiratory reaction Call a poison control center or doctor for further treatment advice.
Ingestion	Call a physician or poison control center immediately May produce an allergic reaction Do not induce vomiting unless told to do so by a poison control center or doctor Never give anything by mouth to an unconscious person
Notes to Physician	No information available

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point	Not available
Autoignition Temperature	Not available
Flammability Limits in Air	Not available
Extinguishing Media	Use: Water spray, Foam, Dry chemical.
Fire/Explosion Hazard	Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.
Hazardous Combustion Products	Can form explosive mixtures with combustible, organic or other easily oxidizable materials.

NFPA **Health** 1 **Flammability** 0 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes. Use personal protective equipment.
Environmental Precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.
Methods for Clean-up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Wear personal protective equipment. Keep out of reach of children. Empty containers may contain hazardous residues. Keep away from heat, sparks and open flame. - No smoking.
Storage	Keep from freezing, material may coagulate.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection

Avoid contact with eyes. Use eye protection to avoid eye contact. Goggles.

Skin Protection

Chemical resistant gloves. Chemical resistant protective clothing.

Respiratory Protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Yellow	Odor	Not available
Physical State	Liquid	pH	no data available
Boiling Point/Range	370 °F	Melting Point/Range	Not available
Specific Gravity	1.05 g/cc	Solubility	Miscible
Evaporation Rate	Not available	Vapor pressure	Not available

Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	no data available
Bulk Density	no data available	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Conditions to Avoid	Keep away from children Keep away from open flames, hot surfaces and sources of ignition
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide Carbon dioxide (CO ₂) Nitrogen oxides (NO _x) Noxious fumes
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	289 - Oral LD ₅₀ = >1500 mg/kg rat Dermal LD ₅₀ = >2000 mg/kg rabbit Inhalation LC ₅₀ = >2.11 mg/l rat Non-irritating to skin. Mild eye irritant. Not a skin sensitizer.
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Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product.
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Octylphenoxy polyethoxyethanol

This material is highly toxic to *Seenastrum capricornutum* (96 hr LC₅₀ 0.21 mg/l); moderately toxic to trout (LC₅₀ 7.2 mg/l) and fathead minnow (96 hr LC₅₀ 8.9 mg/l) and slightly toxic to sheepshead minnow (96 hr LC₅₀ 32 mg/l) *Daphnia magna* (48 hr EC₅₀ 21 mg/l) and practically non-toxic to *Mysidopsis bahia* (96 hr LC₅₀ 320 mg/l).
Propylene glycol: This material is practically non-toxic to rainbow trout (LC₅₀ >50,000 mg/l), guppies (LC₅₀ > 10,000 mg/l), goldfish (LC₅₀ >5,000 mg/l) and *Daphnia magna* (LC₅₀ >10,000 mg/l).

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Imazalil				X	(5)-6891			
Ethoxylated castor oil	XU	X		X	(8)-290	X	KE-13404	X
Octylphenoxy polyethoxyethanol	XU	X			(7)-172	X	KE-33567	X
Polyethylene glycol	XU	X		X	(8)-429 (7)-129 (2)-441	X	KE-20228	X

USA

Federal Regulations

SARA 313
 Y

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Imazalil	35554-44-0	22.2	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard No
 Acute Health Hazard Yes
 Fire Hazard No
 Sudden Release of Pressure Hazard No
 Reactive Hazard No

Clean Water Act

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

CERCLA

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Imazalil 35554-44-0 (22.2)			X	
Ethoxylated castor oil 61791-12-6 (1-50)		List 4B - Inert Ingredients		
Octylphenoxy polyethoxyethanol 9036-19-5 (25)		List 4B - Inert Ingredients	X	
Polyethylene glycol 25322-68-3 (1-50)		List 4B - Inert Ingredients	X	

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals: Prop 65: Imazalil is listed as known to the State of California to cause cancer. (May 20, 2011). A No Significant Risk level (NSRL) if 11 micrograms per day has been adopted (April 25, 2012). A safe use determination should be performed to determine if the particular use of this product is covered by the Safe Harbor provisions of this Act (exposure below NSRL) or if occupational exposure warnings in the workplace are required. Proposition 65 warnings are recommended for persons repacking imazalil containing products from bulk into smaller containers and for the mixer/loader adding the concentrated product to the application or mix tank within the scope of the labelled Directions For Use.

Chemical Name	CAS-No	Category	California Prop. 65	Non-additive, corrosive chemical type
Imazalil	35554-44-0	Carcinogen	Carcinogen	

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Imazalil		X			

International Regulations

Mexico - Grade Not available

Component	Category	Carcinogen Status	Exposure Limits
Imazalil 35554-44-0 (22.2)	Carcinogen		

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

Chemical Name	NPRI
Octylphenoxy polyethoxyethanol	X

16. OTHER INFORMATION

Revision Date 20-Jan-2012

Revision Summary
Update section 3

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks associated with the use of this product. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Decco US Post-Harvest, Inc. harmless from any claims relating to such factors.

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End of MSDS