

Howard Johnson's Turf & Ornamental with trace PKG Fertilizers

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Section 1: Product Identification

Product Name: Howard Johnson's Turf and Ornamental with Trace Pkg Fertilizer

EPA Reg. Number: None

Chemical Name: Mixtures. Granular fertilizers, various grades.

Shipping Not regulated by U.S. DOT for all modes of transportation within the

Information: U.S.

Section 2: Composition/Information on Ingredients

Chemical Name	CAS Registry Number	OSHA PEL	ACGIH TLV	SARA 313 Reportable
A		15mg/m3 (Total)	10mg/m3 (inhalable)	1
Ammonium Phosphate	10124-31-9	5mg/m3(respirable)	3 mg/m3 (respirable)	No
		sing/ins(respirable)	5 mg/ m5 (respirable)	
Copper Oxide	1317-39-1	15mg/m3 (Total)	10mg/m3 (inhalable)	
• •		5mg/m3(respirable)	3 mg/m3 (respirable)	
C	7750.00.7			
Copper Sulfate	7758-98-7	15mg/m3 (Total)	10mg/m3 (inhalable)	
		5mg/m3(respirable)	3 mg/m3 (respirable)	
Iron Oxide	1332-37-2			
		15mg/m3 (Total)	10mg/m3 (inhalable)	
		5mg/m3(respirable)	3 mg/m3 (respirable)	
Iron Sulfate	7720-78-7			
		15mg/m3 (Total)	10mg/m3 (inhalable)	
Manganese Sulfate	7785-87-7	5mg/m3(respirable)	3 mg/m3 (respirable)	
		15mg/m3 (Total)	10mg/m3 (inhalable)	
M 0 11	1211 12 0	5mg/m3(respirable)	3 mg/m3 (respirable)	
Manganese Oxide	1344-43-0	15mg/m3 (Total)	10mg/m3 (inhalable)	
		5mg/m3(respirable)	3 mg/m3 (respirable)	
Sodium Borate	11130-12-4			
		15mg/m3 (Total)	10mg/m3 (inhalable)	
		5mg/m3(respirable	3 mg/m3 (respirable)	
Sodium Molybdate	7631-95-0	15mg/m3 (Total)	10mg/m3 (inhalable)	
		5mg/m3(respirable)	3 mg/m3 (respirable)	
Zinc Oxide	1314-13-2			
	101, 10 =	15mg/m3 (Total)	10mg/m3 (inhalable)	
		5mg/m3(respirable)	3 mg/m3 (respirable)	
Zinc Sulfate	7733-02-0	15 / 2 /T 1	40 / 00 1 1 1 1 1	
		15mg/m3 (Total) 5mg/m3(respirable)	10mg/m3 (inhalable)	
		omg/mo(respirable)	3 mg/m3 (respirable)	

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Sulfate of Potash	7778-80-5	15mg/m3 (Total) 5mg/m3(respirable)	10mg/m3 (inhalable) 3 mg/m3 (respirable)	
Ureaform	9011-05-6	15mg/m3 (Total) 5mg/m3(respirable)	10mg/m3 (inhalable) 3 mg/m3 (respirable)	
Crystalline Silica (quartz)*	14808-60-7	0.1 mg/m^3	0.1 mg/m^3	No

^{*}May be present as a naturally occurring mineral in the fertilizer ingredients used in this formulation. The respirable portion of crystalline silica in this product is very small, and excessive inhalation is unlikely under normal conditions of use.

Section 3: Physical and Chemical Properties

Physical Form:	Granular solid	Bulk Density:	Not established	
рН:	Not applicable	Refractive Index:	Not applicable	
Boiling Point:	Not applicable	Freezing Point:	Not applicable	
Solubility in Water:	Insoluble	Viscosity:	Free-flowing granules	
Vapor Pressure:	Not determined	Vapor Density:	Not determined	
Percent Volatile:	None	Evaporation Rate:	Not determined	
Appearance and	Multi-colored granules with a mild, characteristic fertilizer odor.			

Odor:

Section 4: Fire and Explosion Hazard Data

Flash Point (°	F):	Not flammable	Flash Point Method:	Not applicable
Auto Ignition	Temp. (°F):	Not applicable	Burning Rate:	Not applicable
Explosive	Upper Limit (UEL):	Not applicable	Lower Limit (LEL):	Not applicable

Limits:

Extinguishing Water, carbon dioxide, dry chemical or foam.

Media:

Special Firefighting Fire fighters should wear full protective gear and self-contained

Procedures: breathing apparatus.

None.

Unusual Fire or

Explosion Hazards:



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Section 5: Health Hazard Data

Inhalation, ingestion, skin or eye contact. Primary Routes of Entry:

Signs and Symptoms of Over-Exposure:

Mild, reversible irritation to None known. Eve Acute: Chronic:

Contact: the eye.

Skin Acute: May cause mechanical Chronic: None known.

irritation. Contact:

Inhalation: Excessive inhalation of Chronic: Excessive inhalation of Acute:

fertilizer dust may irritate crystalline silica (quartz) nose, throat, or upper may cause lung injury. respiratory tract.

Ingestion: Ingestion of fertilizer Acute:

Chronic: None known.

components may cause nausea, vomiting, cramps or

diarrhea.

Emergency First Aid Procedures:

Eve Hold eyelids open and flush with lots of water for 15 minutes. If irritation

Contact: persists after flushing, get medical attention.

Skin Remove contaminated clothing and wash skin with soap and water. If irritation

Contact: develops after washing, get medical attention.

Inhalation: Remove person to fresh air. If breathing has stopped, give artificial respiration

and get immediate medical attention.

Ingestion: Call a physician or poison control center. Give person 1 or 2 glasses of water to

drink. If irritation persists, seek medical attention.

Medical conditions Existing skin irritation, cuts or scrapes may be aggravated by contact

aggravated by with fertilizer. Pulmonary or respiratory disease may be aggravated by

inhalation of dust. exposure:

Target Organs: None known.

Carcinogens: Crystalline silica (quartz) component is classified as a carcinogen by

NTP and IARC.

Section 6: Reactivity Data

Stable. Stability:

Chemical incompatibilities: Strong Oxidizers.

Conditions to avoid: None – product is stable.

Hazardous Decomposition Thermal decomposition (burning) may produce CO, CO₂, and

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Products: NO_x .

Hazardous Polymerization: Will not occur.

Section 7: Accidental Release Procedures

Large Spill or Leak Isolate and contain spill. Remove unauthorized persons from spill area. Procedures:

Do not walk through spilled materials. Wear suitable protective gear. Carefully sweep or scoop spilled material and place in a closed, labeled container for use or disposal. Scrub contaminated surfaces with detergent and water, and collect wash water solution for proper disposal according to label directions. Do not allow spilled material to enter

streams, sewers or other waters.

Small Spill or Leak Wear protective clothing as recommended on label. Sweep up spilled

Procedures: material for use according to label directions.

Waste Disposal Consult state or local environmental agency for disposal of waste Methods: generated by a spill. Wastes from the use of this product according to

label directions may be disposed as specified on product label.

Section 8: Exposure Controls and Personal Protection

Engineering Controls – This product is designed for outdoor use only, and ventilation is Ventilation:

not normally required. Local exhaust may be necessary when

handling this product in an enclosed area.

Administrative Controls: Follow all precautions and directions for use on product label.

Protective Clothing and Wash thoroughly after handling and before eating, drinking,

Equipment: smoking or using the toilet.

Respiratory Protection: For normal handling and use, a respirator is not required. For

> excessively dusty conditions, use a dust mask approved by MSHA/NIOSH. See OSHA regulations in 29 CFR § 1910.134

before using any respirator or dust mask.

Eye Protection: Good safety practices suggest the use of goggles to prevent contact

with eyes.

Hand Protection: Good safety practices suggest the use of chemical-resistant (natural

rubber) gloves, to prevent skin contact.

Skin Protection: Wear long-sleeved shirt and long trousers to reduce skin contact.

Contaminated Launder contaminated clothing separately from street clothes. Clean contaminated boots/shoes and other equipment with Equipment:

detergent and water immediately after use.

Clean water should be available to flush eyes and/or skin in case of Safety Stations:

accidental contact.

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Section 9: Handling and Storage Precautions

Wear appropriate protective gear when handling open containers. Do Handling Precautions: not take internally. Avoid contact with eyes, skin or clothing. Wash

thoroughly after handling.

Storage

Requirements:

Store in a locked, dry area, away from feed or food, and out of reach of children, pets and domestic animals. Keep containers tightly closed when not in use. Store in original container only. Do not remove or destroy product label. Dispose of empty containers as specified on

product label.

Revision Date: July 20, 2009 By, Director of Regulatory Affairs

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