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**MATERIAL SAFETY DATA SHEET** 

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Section 1: Product	Identification
Product Name:	Howard Johnson's Oxadiazon 1.0 Plus
	Howard Johnson's Oxadiazon 1.5 Plus
EPA Reg. Number:	53883-180-32802, 53883-179-32802
Chemical Name:	Granular fertilizer impregnated with Ronstar <sup>®</sup> (Oxadiazon) pre- emergence herbicide.
Shipping Information:	Not regulated by U.S. DOT for all modes of transportation within the U.S.

Ronstar® is a registered trademark of Aventis.

Section 2: Composition/Information on Ingredients				
Chemical Name	<u>CAS Registry</u> <u>Number</u>	<u>OSHA PEL</u>	ACGIH TLV	<u>SARA 313</u> Reportable
Oxadiazon: [2-tert-butyl-4-(2,4- dichloro-5-isopropoxyphenyl)-Δ- 1,3,4-oxadiazolin-5-one]	19666-30-9	None	None	No
Crystalline Silica (quartz)*	14808-60-7	$0.1 \text{ mg/m}^3$	0.1 mg/m <sup>3</sup>	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: Physica	a and Chemical Propert	.165	
Physical Form:	Granular Solid	Bulk Density:	Not established
pH:	Not applicable	Refractive Index:	Not applicable
Boiling Point:	Not applicable	Freezing Point:	Not applicable
Solubility in Water:	Partial	Viscosity:	Free-flowing granules
Vapor Pressure:	Not established	Vapor Density:	Not established
Percent Volatile:	Not established	Evaporation Rate:	Not established
Appearance and Odor:	Multi-colored granules v	with a bland, characte	ristic odor.

#### **Section 3:** Physical and Chemical Properties



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Section 4: Fire and H	Explosion Hazard Da	ta	
Flash Point (°F):	Not Flamm	able Flash Point Method:	Not applicable
Auto Ignition Temp. (°F)	: Not applica	ble Burning Rate:	Not applicable
Explosive Upper Lim	nit (UEL): Not applica	ble Lower Limit (LEL):	Not applicable
Limits:			
Extinguishing	Water, carbon dioxide.	, dry chemical or foam.	
Media:			
Special Firefighting	Fire fighters should we	ear full protective gear and sel	f-contained
Procedures:	breathing apparatus. O smoke from fire may b	Contain runoff to prevent poll be hazardous.	ution. Fumes and
Unusual Fire or Explosion Hazards:	None.		

#### Section 5: Health Hazard Data

Primary Rout	es of Entr	ry: Inhalation, ingest	ion, skin or	eye contact.
Signs and Symptoms of Over-Exposure:				
Eye Contact:	Acute:	Causes substantial but reversible eye injury.	Chronic:	None reported.
Skin Contact:	Acute:	Harmful if absorbed through the skin. Causes skin irritation.	Chronic:	None reported.
Inhalation:	Acute:	Excessive inhalation of fertilizer dust may irritate nose, throat and upper respiratory tract.	Chronic:	Excessive inhalation of crystalline silica (quartz) may cause lung injury.
Ingestion:	Acute:	Harmful if swallowed. No specific symptoms of acute over-exposure to the herbicide active ingredient are known to occur. Ingestion may cause irritation to mouth, esophagus, nausea, vomiting, abdominal pain, chest pain, and diarrhea.	Chronic:	None reported.



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#### **Emergency First Aid Procedures:**

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Eye Contact:	Hold eyelids open and flush with lots of water for 15 minutes. If irritation persists after flushing, get medical attention.	
Skin Contact:	Remove contaminated clothing and wash skin with soap and water. If irritation develops after washing, get medical attention.	
Inhalation:	Remove person to fresh air. If breathing stops, give artificial respiration and get medical attention.	
Ingestion:	all a physician or poison control center. Give person 1-2 glasses of water to tink, and induce vomiting by touching back of throat with finger. If Syrup of becac is available, give 1 tablespoon (15 ml) followed by 1-2 glasses of water. If omiting does not occur within 20 minutes, repeat dosage once. Never induce omiting or give anything by mouth to an unconscious or convulsing person. To to to Physician: No specific antidote to the herbicide active ingredient. Treat imptomatically. Give supportive care in response to the reactions of the attent.	
Medical condi aggravated by exposure:	tions Existing skin irritation or lesions, asthma or pulmonary disease.	
Target Organs	Skin, lungs, kidney, liver, bladder, spleen, and blood effects.	
Carcinogens:	Crystalline silica (quartz) component is classified as a carcinogen by NTP and IARC. Oxadiazon is classified as a carcinogen by the state of California.	

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Stability:	Stable
Chemical incompatibilities:	Strong oxidizers
Conditions to avoid:	None – product is stable
Hazardous Decomposition Products:	Thermal decomposition (burning) may produce CO, CO <sub>2</sub> , NO <sub>x</sub>
Hazardous Polymerization:	Will not occur

### Section 6: Reactivity Data



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Section 7: Accidental Release Procedures

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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 Procedures:	Wear protective clothing as recommended on label. Sweep up spilled material for use according to label directions.	
Waste Disposal Methods:	Consult state or local environmental agency for disposal of waste 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 – Ventilation:	This product is designed for outdoor use only, and ventilation is 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 Equipment:	Wash thoroughly after handling and before eating, drinking, 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 Equipment:	Launder contaminated clothing separately from street clothes. Clean contaminated boots/shoes and other equipment with detergent and water immediately after use.
Safety Stations:	Clean water should be available to flush eyes and/or skin in case of accidental contact.



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Section 9: Handling and Storage Precautions		
Handling Precautions:	Wear appropriate protective gear when handling open containers. Do 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: April 4, 2002 By: Kresti A. Lyddon, Director of Regulatory Affairs This information is believed to be accurate at the time of publication. No warranty, guarantee or representation, expressed or implied, is made with regard to this information. Because this information may not be adequate for every application, the user must determine the suitability of the information, and may need additional information due to the manner/conditions of use, storage, state or local regulations.

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