



Howard Johnson's Enterprises

MATERIAL SAFETY DATA SHEET

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Section 1: Product Identification

Product Name: Howard Johnson's Weed & Feed with Millennium® Ultra

EPA Reg. Number: 228-343-32802

Chemical Name: Granular fertilizer impregnated with Millennium® Ultra broadleaf herbicide

Shipping Information: Not regulated by U.S. DOT for all modes of transportation within the U.S. (package size 36 or 50 pounds).

Millennium® Ultra is a registered trademark of the Riverdale Chemical Company.

Section 2: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Registry Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>SARA 313 Reportable</u>
Dimethylamine salt of 2,4-dichlorophenoxyacetic acid	2008-39-1	10 mg/m ³	10 mg/m ³	No
Clopyralid: Monoethanolamine salt of 3,6-dichloro-2-pyridinecarboxylic acid	57754-85-5	None	None	No
Dicamba: Dimethylamine salt of 3,6-dichloro-o-anisic acid	2300-66-5	None	None	Yes
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

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 with a characteristic odor of phenoxy herbicide.

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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 Limits:	Upper Limit (UEL): Not applicable	Lower Limit (LEL):	Not applicable
Extinguishing Media:	Water, carbon dioxide, dry chemical or foam.		
Special Firefighting Procedures:	Fire fighters should wear full protective gear and self-contained breathing apparatus. Contain runoff to prevent pollution. Fumes and smoke from fire may be hazardous.		
Unusual Fire or Explosion Hazards:	None.		

Section 5: Health Hazard Data

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

Signs and Symptoms of Over-Exposure:

Eye Contact:	Acute: Irritation, possible corneal injury.	Chronic: None reported.
Skin Contact:	Acute: May cause mechanical irritation. May be absorbed through the skin.	Chronic: May cause dermal sensitization in susceptible individuals.
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: May cause gastrointestinal irritation. Symptoms of over exposure include myotonia (muscle spasms), general weakness, lethargy, nausea, vomiting, cramps, and diarrhea.	Chronic: May cause liver, kidney, gastrointestinal and muscular effects, and peripheral nerve effects.



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Emergency First Aid Procedures:

- 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: Call a physician or poison control center. Give person 1-2 glasses of water to drink, and induce vomiting by touching back of throat with finger. If Syrup of Ipecac is available, give 1 tablespoon (15 ml) followed by 1-2 glasses of water. If vomiting does not occur within 20 minutes, repeat dosage once. Never induce vomiting or give anything by mouth to an unconscious or convulsing person.
- Medical conditions aggravated by exposure: Existing skin irritation or lesions, asthma or pulmonary disease.
- Target Organs: Eyes, skin, kidney, liver, gastrointestinal system, muscle system, nervous system.
- Carcinogens: IARC has listed chlorophenoxy herbicides (such as those contained in this product) as class 2B (limited evidence of carcinogenicity in humans). Crystalline silica (quartz) component is classified as a carcinogen by NTP and IARC.

Section 6: Reactivity Data

- Stability: Stable
- Chemical incompatibilities: Strong oxidizers
- Conditions to avoid: None – product is stable
- Hazardous Decomposition Products: Thermal decomposition (burning) may produce CO, CO₂, NO_x, HCl.
- Hazardous Polymerization: Will not occur

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Section 7: Accidental Release Procedures

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

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By: Kresti A. Lyddon, Director of Regulatory Affairs

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