

Manufacturer: **HOWARD JOHNSON'S ENTERPRISES, INC.**  
**700 W. Virginia Street, #222**  
**Milwaukee, WI 53204-1548**  
**Emergency Phone: (414) 276-1505**

**MATERIAL SAFETY  
DATA SHEET**

**\*\*\*\* SECTION 1: PRODUCT IDENTIFICATION \*\*\*\*\***

Product Name: **Howard Johnson's Cuatro with Dimension® plus Quinclorac**

\*DIMENSION® is a trademark of Dow AgroSciences

Chemical Name: Mixture

Other Name: Granular fertilizer impregnated with Cuatro with Dimension® plus Quinclorac

Shipping Information: Not regulated by US DOT for all modes of transportation within the US  
(package sizes 60 pounds or less)

**\*\*\*\* SECTION 2: HAZARDOUS INGREDIENTS \*\*\*\*\***

<u>Hazardous Ingredients</u>	<u>CAS Registry No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	
<u>SARA 313 Reportable</u>				
2,4-dichlorophenoxyacetic acid	94-75-7	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Yes
3,6-Dichloro-o-anisic acid (Dicamba)	1918009	Not established	Not established	Yes
3,7-Dichloroquinoline-8-carboxylic acid (Quinclorac)	84087014	Not established	Not established	No
Dithiopyr	97886458	Not established	Not established	No
Crystalline silica (quartz)*	14808-60-7	0.1 mg/m <sup>3</sup>	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: 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 determined	Vapor Density:	Not determined
% Volatile:	Not determined	Evaporation Rate:	Not determined

Appearance & Odor: Multi-colored granules with a slightly sweet odor.

**\*\*\*\* SECTION 4: FIRE AND EXPLOSION HAZARD DATA \*\*\*\*\***

Flash Point (°F):	None - not flammable	Flash Point Method:	Not applicable
Autoignition 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 Fire Fighting Procedures: Firefighters 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: Forms nitrogen oxides, sulphurous oxides and hydrogen chloride gas upon burning.

**\*\*\*\* SECTION 5: HEALTH HAZARD DATA ( Acute And Chronic): \*\*\*\*\***

Primary Routes of Entry: Inhalation, ingestion, skin contact

- Eye Contact: May cause Irritation.

- Skin Contact: Nothing Indicated

- Inhalation: Acute: May irritate respiratory tract.

Chronic: Excessive inhalation of crystalline silica (quartz) may cause lung injury.

- Ingestion: Acute: May cause gastrointestinal irritation.

MSDS (continued) for Howard Johnson's Cuatro with Dimension® plus Quinclorac

**EMERGENCY FIRST AID PROCEDURES:**

**If in eyes:**

- 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 poison control center or doctor for treatment advice.

**If swallowed:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person. If on skin or clothing:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for treatment advice.

**If inhaled:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information in case of emergency, call toll free 1-877-800-5556.

**Other Health Warnings:**

Notes to physician: Treat symptomatically. Chlorophenoxy compounds are usually excreted in approximately 72 hours.

Medical Conditions Aggravated by Exposure: Existing skin irritation, or lesions, asthma or pulmonary disease.

Target Organs: Eyes, skin, kidney, liver, gastrointestinal systems, muscle system, nervous system.

Carcinogens: IARC has listed chlorophenoxy herbicides (such as those contained in this product as class 2B (limited evidence for carcinogenicity in humans). Crystalline silica (quartz) component is classified as a carcinogen by NTP and IARC.

**\*\*\*\* SECTION 6: REACTIVITY DATA \*\*\*\***

Stability: Stable

Hazardous Polymerization: Will not occur

Chemical Incompatibilities: None known

Conditions to avoid: None - product is stable

Hazardous Decomposition Products: If burned nitrogen oxides, sulphurous oxides and hydrogen chloride gas may be formed

**\*\*\*\* SECTION 7: ACCIDENTAL RELEASE PROCEDURES \*\*\*\***

**Steps to be Taken in Case Material is Released or Spilled:**

See Section 8 for Personal Protective Equipment. Collect spilled material for reuse if possible. If other than original container is used, label new container for this product. Collect unusable material into DOT drum for disposal. Wash area with water if possible.

**\*\*\*\* SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION \*\*\*\***

**Ventilation Requirements:**

**Personal Protective Equipment:**

PROTECTIVE CLOTHING: Wear long sleeve shirt, long pants, and shoes with socks.

**\*\*\*\* SECTION 9: HANDLING AND STORAGE PRECAUTIONS \*\*\*\***

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal. PESTICIDE STORAGE: Keep in original container in a cool, dry area, away from extreme heat and cold.

**Other Precautions:**NI

MSDS (continued) for Howard Johnson's Cuatro with Dimension® plus Quinclorac

\*\*\*\* SECTION 10. Toxicological Information\*\*\*\*\*

Acute Oral Toxicity/Rat: LD50 >5,000 mg/kg  
Acute Dermal Toxicity/Rabbit: LD50 >5,000 mg/kg  
Acute Inhalation/Rat: LC50 > 2.08 mg/L  
Primary Eye Irritation/Rabbit: Mild irritant  
Primary Skin Irritation/Rabbit: Slightly irritating  
Dermal Sensitization: Not a contact sensitizer

\*\*\*\* SECTION 11. Ecological Information\*\*\*\*\*

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

These chemicals (2,4-D and dicamba) have properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.]

\*\*\*\* SECTION 12. Disposal Considerations\*\*\*\*\*

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE:** Keep in original container in a cool, dry area, away from extreme heat and cold.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING: Nonrefillable container.** Do not reuse or refill this container (bag). Completely empty bag into application equipment. If empty: Place bag in trash or offer empty bag for recycling if available. If partly filled: Call your local solid waste agency [or [www.website.com](http://www.website.com)] for disposal instructions. Never place unused product down any indoor or outdoor drain.

\*\*\*\* SECTION 13. Transport Information\*\*\*\*\*

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept. Freight Class: PESTICIDES, NOI, INCLUDING DEFOLIANTS, FUNGICIDES, HERBICIDES, OR INSECTICIDES NMFC 155050-6 In our current available sizes, this product does not qualify as a Hazardous Material.

\*\*\*\* SECTION 14. Regulatory Information\*\*\*\*\*

OSHA STATUS: This product is hazardous under the criteria of the

Update: 8/23/1999 by: Janet P. Baguhn, Compliance Manager

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