

Safety Data Sheet



Section 1: Identification

Product identifier

- Product Name** • **Howard Johnson's Oxadiazon 1.5 Plus, Howard Johnson's Oxadiazon 1.0 Plus**
- Synonyms** • EPA Reg. No.: 53883-179-32802; EPA Reg. No.: 53883-180-32802; FertCa
- Product Code** • FertCa
- Product Description** • Variable colored granules.
- Relevant identified uses of the substance or mixture and uses advised against**
- Recommended use** • Fertilizer plus herbicide for lawns.
- Restrictions on use** •
Keep out of reach of children and domestic animals. Avoid breathing dust. Avoid contact with eyes, skin and clothing.

Details of the supplier of the safety data sheet

- Manufacturer** • Howard Johnson's Enterprises, Inc.
9675 S. 60th Street
Franklin, WI 53132
United States
www.hjefertilizer.com
- Telephone (General)** • (414) 394-3590 - 8:30am - 5:00pm CST

Emergency telephone number

- Manufacturer** • 1-800-424-9300 - CHEMTREC - Transportation and Non-Transportation related emergencies
- Manufacturer** • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012** • Carcinogenicity 1A

Label elements

OSHA HCS 2012

DANGER

Hazard statements • May cause cancer.

Precautionary statements

Prevention • Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF exposed or concerned: Get medical advice/attention.

Storage/Disposal •

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Store locked up.

Other hazards

OSHA HCS 2012

• This pesticide is toxic to fish. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

• Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

| Composition | | |
|------------------------------|----------------|------------|
| Chemical Name | Identifiers | % |
| Oxadiazon | CAS:19666-30-9 | 1% TO 1.5% |
| Limestone | CAS:1317-65-3 | 10% TO 90% |
| Silica, crystalline - quartz | CAS:14808-60-7 | > 0.1% |
| Other ingredients | NDA | Balance |

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

• IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms occur.

- **Skin** IF ON SKIN: Wash skin with soap and water. If irritation develops and persists, get medical attention.
- **Eye** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
- **Ingestion** IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed by medical personnel.

Most important symptoms and effects, both acute and delayed

- May cause cancer. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

- **Notes to Physician** Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- **Suitable Extinguishing Media** SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
LARGE FIRE: Water spray, fog or regular foam.

- **Unsuitable Extinguishing Media** Avoid heavy hose streams.

Special hazards arising from the substance or mixture

- **Unusual Fire and Explosion Hazards** None known.

- **Hazardous Combustion Products** Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- **Personal Precautions** Avoid contact with skin, eyes, and clothing. Wear appropriate personal protective equipment, avoid direct contact.

- **Emergency Procedures** No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

Environmental precautions

- No data available

Methods and material for containment and cleaning up

- **Containment/Clean-up Measures** Sweep or scoop up spills, dispose of any unusable material in approved landfill. Use appropriate Personal Protective Equipment (PPE).

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Avoid contact with skin, eyes, and clothing. Avoid breathing dust. To minimize dust generation and accumulation, spills should be cleaned up and dust accumulations should be removed promptly. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool/low-temperature, well-ventilated, dry place. Avoid humid or wet conditions. Keep out of reach of children. Keep container tightly closed. Store locked up.

Incompatible Materials or Ignition Sources

- No data available.

Section 8 - Exposure Controls/Personal Protection

Control parameters

| Exposure Limits/Guidelines | | | | |
|---|--------|---|--|--|
| | Result | ACGIH | NIOSH | OSHA |
| Silica, crystalline - quartz (14808-60-7) | TWAs | 0.025 mg/m ³ TWA (respirable fraction) | 0.05 mg/m ³ TWA (respirable dust) | 0.05 mg/m ³ TWA (respirable dust) |
| Limestone (1317-65-3) | TWAs | Not established | 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust) | 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) |

Exposure Control Notations

ACGIH

- Silica, crystalline - quartz (14808-60-7): **Carcinogens:** (A2 - Suspected Human Carcinogen)

Exposure Limits Supplemental

OSHA

- Silica, crystalline - quartz (14808-60-7): **Mineral Dusts:** ((30)/(%SiO₂ + 2) mg/m³ TWA, total dust; (250)/(%SiO₂ + 5) mppcf TWA

ACGIH

- Silica, crystalline - quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

Exposure controls

Engineering

Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- If airborne dust is present or in case of inadequate ventilation, use appropriate respiratory protection. Use of half/full face air purifying or N95 dust mask is recommended.

Eye/Face

- Wear safety glasses.

Hands

- Wear appropriate gloves.

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact. Use full body suit such as Tyvek or Tychem suit is recommended.

General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Other Information

- See product label for specific use PPE instructions.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties**

| Material Description | | | |
|-------------------------------------|-------------------|------------------------------|--------------------------------|
| Physical Form | Solid | Appearance/Description | Variable colored granules. |
| Color | Varies | Odor | Varies |
| Odor Threshold | No data available | | |
| General Properties | | | |
| Boiling Point | No data available | Melting Point/Freezing Point | No data available |
| Decomposition Temperature | No data available | pH | Not relevant |
| Specific Gravity/Relative Density | No data available | Bulk Density | 45 to 80 lb(s)/ft ³ |
| Water Solubility | No data available | Viscosity | Not relevant |
| Volatility | | | |
| Vapor Pressure | No data available | Vapor Density | No data available |
| Evaporation Rate | No data available | | |
| Flammability | | | |
| Flash Point | Not relevant | UEL | No data available |
| LEL | No data available | Autoignition | No data available |
| Flammability (solid, gas) | No data available | | |
| Environmental | | | |
| Octanol/Water Partition coefficient | No data available | | |

Section 10: Stability and Reactivity**Reactivity**

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Extreme heat, high humidity or moisture.

Incompatible materials

- No data available.

Hazardous decomposition products

- Flammable/toxic gases will form at elevated temperatures by thermal decomposition.

Section 11 - Toxicological Information

Information on toxicological effects

| Components | | |
|------------------------|------------|--|
| Oxadiazon (1% TO 1.5%) | 19666-30-9 | Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >1.8 mg/L 4 Hour(s); Skin-Rabbit LD50 • >2000 mg/kg; Irritation: Eye-Rabbit • Severe irritation; Skin-Rabbit • Moderate irritation |

| GHS Properties | Classification |
|-------------------------------|---|
| Acute toxicity | OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met |
| Skin corrosion/Irritation | OSHA HCS 2012 • Classification criteria not met |
| Serious eye damage/Irritation | OSHA HCS 2012 • Classification criteria not met |
| Skin sensitization | OSHA HCS 2012 • Classification criteria not met |
| Respiratory sensitization | OSHA HCS 2012 • Classification criteria not met |
| Aspiration Hazard | OSHA HCS 2012 • Classification criteria not met |
| Carcinogenicity | OSHA HCS 2012 • Carcinogenicity 1A |
| Germ Cell Mutagenicity | OSHA HCS 2012 • Classification criteria not met |
| Toxicity for Reproduction | OSHA HCS 2012 • Classification criteria not met |
| STOT-SE | OSHA HCS 2012 • Classification criteria not met |
| STOT-RE | OSHA HCS 2012 • Classification criteria not met |

Potential Health Effects

Inhalation

Acute (Immediate)

- Exposure to dust may cause mild respiratory irritation. Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss.

Chronic (Delayed)

- Repeated or prolonged inhalation of dust may cause respiratory irritation. Repeated and prolonged exposure to crystalline silica containing materials may cause irritation and/or lung damage silicosis, fibrosis, inflammation, cancer.

Skin

Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Eye

Acute (Immediate)

- Exposure may cause mechanical eye irritation.

Chronic (Delayed)

- No data available

Ingestion**Acute (Immediate)**

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available

Mutagenic Effects

- Oxadiazon was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Carcinogenic Effects

- Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

| Carcinogenic Effects | | | |
|------------------------------|------------|----------------------|------------------------|
| | CAS | IARC | NTP |
| Silica, crystalline - quartz | 14808-60-7 | Group 1-Carcinogenic | Known Human Carcinogen |

Reproductive Effects

- Oxadiazon is not a reproductive toxicant.

Section 12 - Ecological Information**Toxicity**

- No data available

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Other adverse effects**Potential Environmental Effects**

- This pesticide is toxic to fish.

Section 13 - Disposal Considerations**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

| | UN number | UN proper shipping name | Transport hazard class (es) | Packing group | Environmental hazards |
|-----|------------------|--------------------------------|------------------------------------|----------------------|------------------------------|
| DOT | Not Applicable | Not Regulated | Not Applicable | Not Applicable | Not Applicable |

| | | | | | |
|------------------|----------------|---------------|----------------|----------------|----------------|
| IMO/IMDG | Not Applicable | Not Regulated | Not Applicable | Not Applicable | Not Applicable |
| IATA/ICAO | Not Applicable | Not Regulated | Not Applicable | Not Applicable | Not Applicable |

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Chronic, SARA Title III Section 313

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

WARNING

Hazard Statements • Keep out of reach of children.

Precautionary Statements •

Hazards to Humans and Domestic Animals •

Causes substantial but temporary eye injury. Wear protective eyewear (goggles, face shield or safety glasses). Causes skin irritation. Do not get in eyes, on skin or clothing. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid breathing dust, or contact with skin, eyes or clothing. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling. Do not allow domestic animals to graze treated areas. Avoid contamination of feed and foodstuffs.

First Aid •

IF SWALLOWED: Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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 poison control center or doctor for treatment advice.

Environmental Hazards •

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is

likely to occur. Do not contaminate water when disposing of equipment washwaters.

| Inventory | | |
|------------------------------|------------|------|
| Component | CAS | TSCA |
| Limestone | 1317-65-3 | Yes |
| Oxadiazon | 19666-30-9 | No |
| Silica, crystalline - quartz | 14808-60-7 | Yes |

United States

Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

| | | |
|--------------------------------|------------|--------------------------------|
| • Limestone | 1317-65-3 | Not Listed |
| • Silica, crystalline - quartz | 14808-60-7 | Not Listed |
| • Oxadiazon | 19666-30-9 | 1.0 % de minimis concentration |

Section 16 - Other Information

Revision Date

- 23/November/2016

Last Revision Date

- 23/November/2016

Preparation Date

- 23/November/2016

Disclaimer/Statement of Liability

- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.