

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

**Product Name**

- **Howard Johnson's Isoxaben 0.38 Plus**

**Synonyms**

- EPA Reg. No.: 62719-178-32802; FertRspCa

**Product Code**

- FertRspCa

**Product Description**

- Variable colored granules.

#### Relevant identified uses of the substance or mixture and uses advised against

**Recommended use**

- Herbicide with fertilizer.

**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  
Respiratory Sensitization 1A

**Label elements**

OSHA HCS 2012

**DANGER**

- Hazard statements** • May cause cancer.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled

**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.  
Avoid breathing vapors, dust, mist or spray.  
In case of inadequate ventilation wear respiratory protection.
- Response** • IF exposed or concerned: Get medical advice/attention.  
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison control center or doctor.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- 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

- 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	%
Isoxaben	CAS:82558-50-7	0.38%
Limestone	CAS:1317-65-3	> 10%
Silica, crystalline - quartz	CAS:14808-60-7	> 0.1%
Peanut hulls	NDA	< 5%
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 or rash occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

### Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### 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 allergy or asthma symptoms or breathing difficulties if inhaled due to peanut hulls. 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, CO<sub>2</sub>, 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. Ventilate enclosed areas. Avoid dust formation and breathing dust.

#### 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. Keep out of reach of children. Keep container tightly closed. Avoid humid, wet or moist conditions. Keep away from incompatible materials such as strong acids. Ventilate enclosed areas. Store locked up.

#### Incompatible Materials or Ignition Sources

- May be corrosive to mild steel. Slightly corrosive to aluminum, zinc, or copper. Non-corrosive to glass, 304 or 316 stainless steel. May be reactive with halogens and slightly reactive with oxidizing agents, reducing agents, acids, alkalis, moisture.

## 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 <sup>3</sup> TWA (respirable particulate matter)	0.05 mg/m <sup>3</sup> TWA (respirable dust)	0.05 mg/m <sup>3</sup> TWA (respirable dust)
Limestone (1317-65-3)	TWAs	Not established	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)

### Exposure Limits Supplemental

#### OSHA

•Silica, crystalline - quartz (14808-60-7): **Mineral Dusts:** ((250)/(%SiO<sub>2</sub> + 5) mppcf TWA, respirable fraction; (10)/(%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> TWA respirable fraction)

#### 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**

- Avoid release to the environment.

**Other Information**

- See product label for specific use PPE instructions.

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

<b>Material Description</b>			
Physical Form	Solid	Appearance/Description	Variable colored granules.
Color	Varies	Odor	Varies
Odor Threshold	No data available		
<b>General Properties</b>			
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 <sup>3</sup>
Water Solubility	No data available	Viscosity	Not relevant
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
<b>Flammability</b>			
Flash Point	Not relevant	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
<b>Environmental</b>			
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. Avoid contact with moisture. If Urea is present, slow hydrolysis may produce acids corrosive to metals.

## Incompatible materials

- Material may be incompatible with halogens, oxidizing agents, reducing agents, acids, alkalis, moisture, potassium chlorate, potassium nitrate, sodium nitrate, sodium hypochlorite, metal chlorates, strong bases. If Urea is present may be corrosive to mild steel and slightly corrosive to aluminum, zinc, or copper.

## Hazardous decomposition products

- May release ammonia, oxides of sulfur, oxides of nitrogen, and oxides of carbon. Flammable/toxic vapors will form at elevated temperatures by thermal decomposition.

## Section 11 - Toxicological Information

### Information on toxicological effects

Components		
Isoxaben (0.38%)	82558-50- 7	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >2.93 mg/L; Skin-Rabbit LD50 • >2000 mg/kg; <b>Irritation:</b> Eye-Species unspecified • Essentially non-irritating; Skin-Species unspecified • Mild 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 • Respiratory Sensitizer 1A
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Germ Cell Mutagenicity	OSHA HCS 2012 • Not classified - data lacking
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)

-

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. May cause sensitization of the respiratory system with shortness of breath.

**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 to dust may cause mechanical irritation.

**Chronic (Delayed)**

- No data available

**Ingestion**

**Acute (Immediate)**

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

**Chronic (Delayed)**

- No data available

**Other**

**Chronic (Delayed)**

- No data available.

**Mutagenic Effects**

- Not classified.

**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**

- Not classified.

**Section 12 - Ecological Information**

**Toxicity**

Components		
Isoxaben (0.38%)	82558-50-7	<p><b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow trout</i> &gt;1.2 mg/L [Acute]                      96 Hour(s) LC50 <i>Sheepshead minnow</i> &gt;0.87 mg/L [Acute]                      33 Day(s) NOEC <i>Fathead minnow</i> 0.4 mg/L [Chronic]  <b>Aquatic Toxicity-Crustacea:</b> 21 Day(s) NOEC Water Flea <i>Daphnia magna</i> 0.69 mg/L [Chronic]                      48 Hour(s) EC50 Water Flea <i>Daphnia magna</i> &gt;1.3 mg/L [Acute]  <b>Aquatic Toxicity-Algae and Other Aquatic Plant(s):</b> 72 Hour(s) ErC50 Algae <i>Pseudokirchneriella subcapitata</i> &gt;1.2 mg/L [Acute]</p>

**Persistence and degradability**

- No data available

**Bioaccumulative potential**

- No data available

**Mobility in Soil**

- No data available

**Other adverse effects**

**Potential Environmental Effects** • No data available.

**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.

**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** • Acute, Chronic

**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.

**CAUTION**

**Precautionary Statements** • KEEP OUT OF REACH OF CHILDREN.

**Hazards to Humans and Domestic Animals**

Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust and contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.



**First Aid .**

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: 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 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.

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.

**Environmental Hazards .**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or inadvertent application to areas adjacent to treated turfgrasses may result in reduced germination or emergence of nontarget plants. Do not contaminate water when disposing of equipment washwaters.

Inventory		
Component	CAS	TSCA
Isoxaben	82558-50-7	No
Limestone	1317-65-3	Yes
Silica, crystalline - quartz	14808-60-7	Yes

**Section 16 - Other Information****Revision Date**

- 29/November/2016

**Last Revision Date**

- 29/November/2016

**Preparation Date**

- 29/November/2016

**Disclaimer/Statement of Liability**

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