Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • **Howard Johnson's Turf Weeder contains Trimec Herbicide**

Synonyms • EPA Reg. No.: 2217-640-32802; FertCDCaRspSS

Product Code • FertCDCaRspSS

Product Description • Variable colored granules.

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

Recommended use • Fertilizer with weed control 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
Skin Sensitization 1
Respiratory Sensitization 1A

Combustible Dust

Label elements

OSHA HCS 2012

DANGER

Hazard statements

- May cause cancer.
May cause an allergic skin reaction
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May form combustible dust concentrations in air.

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.
Contaminated work clothing should not be allowed out of the workplace.
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 ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment, see supplemental first aid information.
Wash contaminated clothing before reuse.
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

- This pesticide is toxic to fish and to aquatic organisms and may adversely affect non-target plants. 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**	**%**
2,4-dichlorophenoxy acetic acid	**CAS:**94-75-7	1.37%
(+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	**CAS:**16484-77-8	0.31%
Dicamba (3,6-dichloro-o-benzoic acid)	**CAS:**1918-00-9	0.13%

Limestone	**CAS:**1317-65-3	10%
Silica, crystalline - quartz	**CAS:**14808-60-7	> 0.1%
Peanut hulls	NDA	25%
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, may cause an allergic skin reaction in individuals with a sensitivity to 2,4-dichlorophenoxy acetic acid, 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.

Firefighting Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
  LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.
  Move containers from fire area if you can do it without risk.
  Stay upwind.
  Combustible dust - use low-pressure medium fog streams to avoid dust clouds.
  Eliminate ignition sources.
  Do not breathe gas/fumes/vapor/spray.
  Do not walk through spilled material.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the

presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products

- Irritating or toxic substances may be emitted upon burning, combustion or decomposition.

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

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill and monitor for excessive dust accumulation. Keep unauthorized personnel away. Ventilate closed spaces before entering.

Environmental precautions

- Avoid run off to waterways and sewers.

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).
  Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.
  Avoid generating dust.
  Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

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. Take precautionary measures against static charges. No open flames, no sparks and no smoking.

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 asreducing agents. Do not blend or store in contact with ammonium nitrate. 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

- It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Exposure Limits/Guidelines				
	Result	**ACGIH**	**NIOSH**	**OSHA**
Silica, crystalline - quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust)	0.05 mg/m3 TWA (respirable dust)
2,4-dichlorophenoxy acetic acid (94-75-7)	TWAs	10 mg/m3 TWA (inhalable fraction)	10 mg/m3 TWA	10 mg/m3 TWA
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Exposure Control Notations

ACGIH

- 2,4-dichlorophenoxy acetic acid (94-75-7): **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

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

- 2,4-dichlorophenoxy acetic acid (94-75-7): **TLV Basis - Critical Effects:** (kidney tubular damage; thyroid effects)
- Silica, crystalline - quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

Exposure controls

Engineering Measures/Controls

- Local exhaust ventilation. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). Use only appropriately classified electrical equipment.

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. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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

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)/ft³
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

- This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur. May form combustible dust concentrations in the air.

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, nitrogen, phosphorus, and carbon. Flammable/toxic vapors will form at elevated temperatures by thermal decomposition.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
2,4-dichlorophenoxy acetic acid (1.37%)	94-75-7	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 375-420 mg/kg; Skin-Rat LD50 • 1500 mg/kg
(+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid (0.31%)	16484-77-8	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 1050 mg/kg; Skin-Rat LD50 • >4000 mg/kg
Dicamba (3,6-dichloro-o-benzoic acid) (0.13%)	1918-00-9	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 1039 mg/kg; Skin-Rat LD50 • >1000 mg/kg

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** • Skin Sensitizer 1
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 allergy or asthma symptoms or breathing difficulties if

inhaled due to peanut hulls.

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)
- May cause an allergic skin reaction in those with a sensitivity to 2,4-dichlorophenoxy acetic acid. 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
2,4-dichlorophenoxy acetic acid	94-75-7	Group 2B-Possible Carcinogen	Not Listed

Reproductive Effects
- Not classified.

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 and to aquatic organisms and may adversely affect non-target plants.

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

DOT
- Environmental hazards: RQ (Dicamba 1000 lbs.) Environmental hazards: RQ (2,4-dichlorophenoxy acetic acid 100 lbs.)

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, 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.

CAUTION

Precautionary Statements
- KEEP OUT OF REACH OF CHILDREN.

Hazards to Humans and Domestic Animals
- Harmful if absorbed through the skin. Harmful if inhaled. Avoid contact with skin eyes or clothing. Avoid breathing dust. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long sleeved shirt and long pants, socks, shoes and gloves. Remove contaminated clothing and wash clothing before reuse.

First Aid
- If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with

plenty of water for 15-20 minutes. 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 five minutes, then continue rinsing eye.
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 IN EYES • Hold eye open and rinse slowly and gently with water for 15-20minutes.• Remove contact lenses, if present, after the first 5 minutes, thencontinue rinsing eye.• Call a poison control center or doctor for further treatment advice.
IF SWALLOWED: Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.

Environmental Hazards •

This product is toxic to fish and aquatic invertebrates and may adversely effect non target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Inventory		
Component	**CAS**	**TSCA**
(+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	No
2,4-dichlorophenoxy acetic acid	94-75-7	Yes
Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	No
Limestone	1317-65-3	Yes
Silica, crystalline - quartz	14808-60-7	Yes

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Limestone	1317-65-3	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed
• 2,4-dichlorophenoxy acetic acid	94-75-7	100 lb final RQ (listed under 2,4-D, salts and esters); 45.4 kg final RQ (listed under 2,4-D, salts and esters)
• (+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	Not Listed
• Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	1000 lb final RQ; 454 kg final RQ

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

• Limestone	1317-65-3	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed
• 2,4-dichlorophenoxy acetic acid	94-75-7	0.1 % de minimis concentration
• (+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	Not Listed
• Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	1.0 % de minimis concentration

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Limestone	1317-65-3	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed
• 2,4-dichlorophenoxy acetic acid	94-75-7	Included in waste stream: F039
• (+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	Not Listed
• Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

• Limestone	1317-65-3	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed
• 2,4-dichlorophenoxy acetic acid	94-75-7	10.0 mg/L regulatory level
• (+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	Not Listed
• Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Limestone	1317-65-3	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed
• 2,4-dichlorophenoxy acetic acid	94-75-7	waste number U240
• (+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	Not Listed
• Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Limestone	1317-65-3	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed
• 2,4-dichlorophenoxy acetic acid	94-75-7	
• (+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	Not Listed
• Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Limestone	1317-65-3	Not Listed
• Silica, crystalline - quartz	14808-60-7	Not Listed
• 2,4-dichlorophenoxy acetic acid	94-75-7	
• (+)-R-2-(2 methyl-4-chlorophenoxy) propionic acid	16484-77-8	Not Listed
• Dicamba (3,6-dichloro-o-benzoic acid)	1918-00-9	Not Listed

Section 16 - Other Information

Revision Date
- 22/September/2016

Last Revision Date
- 22/September/2016

Preparation Date
- 22/September/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.