Safety Data Sheet

Section 1: Identification

Product identifier

Product Name Horizon TurfGro Fertilizers

Product Code FertCa;

Product Description Variable colored granules.

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

Recommended use Specialty Plant Food

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 | 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**	**%**
Limestone	**CAS:**1317•65•3	> 10%
Fertilizer ingredients	NDA	> 89%
Silica, crystalline - quartz	**CAS:**14808-60-7	> 0.1%

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. If eye irritation persists: Get medical advice/attention.

Ingestion | First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

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. 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 reducing 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 and 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**
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)
Silica, crystalline - quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable	0.05 mg/m3 TWA (respirable dust)	Not established

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, respirable fraction; (10)/(%SiO2 + 2) mg/m3 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
No data available

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	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	Flame Duration	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity Chemical stability

- Non-reactive under normal handling and storage conditions.

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid Incompatible materials

- Extreme heat, high humidity or moisture. Avoid contact with moisture. If Urea is present, slow hydrolysis may produce acids corrosive to metals.

- 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 gases will form at elevated temperatures by thermal decomposition.

Section 11 • Toxicological Information

Information on toxicological effects

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
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
Skin corrosion/Irritation	**OSHA HCS 2012** • Classification criteria not met
Skin sensitization	**OSHA HCS 2012** • Classification criteria not met
STOT•RE	**OSHA HCS 2012** • Classification criteria not met
STOT•SE	**OSHA HCS 2012** • Classification criteria not met
Toxicity for Reproduction	**OSHA HCS 2012** • Classification criteria not met
Respiratory sensitization	**OSHA HCS 2012** • Classification criteria not met
Serious eye damage/Irritation	**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 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.

Carcinogenic Effects No data available.

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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

| No studies have been found.

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	None	Not Regulated	N/A	N/A	N/A
IMO/IMDG	N/A	Not Regulated	N/A	N/A	N/A
IATA/ICAO	N/A	Not Regulated	N/A	N/A	N/A

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

Key to abbreviations

= N/A = Not applicable.

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Section 15 • Regulatory Information

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

SARA Hazard Classifications Not regulated

Inventory		
Component	**CAS**	**TSCA**
Limestone	1317•65•3	Yes
Silica, crystalline - quartz	14808-60-7	Yes

Section 16 • Other Information

Last Revision Date 14/Sept/2015

Preparation Date 14/Sept/2015

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