Safety Data Sheet

Section 1: Identification

Product identifier • **Whole Corn**

Product Name • **ORGANIC Yellow Corn**

Synonyms • **Kernels**

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

Recommended use • Food ingredient, feed ingredient, and non-food applications

Details of the supplier of the safety data sheet

Manufacturer • Rovey Seed Co.
1157 Rovey Ave
Farmersville IL, 62533
United States
www.Roveyseed.com
Info@Roveyseed.com

Telephone (General) • 217-227-4541 - 7:00 A.M. - 5:00 P.M. CT

Emergency telephone number

Manufacturer • 661-330-7905/618-772-9413

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Eye Mild Irritation 2B
Combustible Dust

Label elements

OSHA HCS 2012

WARNING

Hazard statements • Causes eye irritation
May form combustible dust concentrations in air.

Precautionary statements

Prevention • Wash thoroughly after handling.

Response • 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.

Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

Classification of the substance or mixture

WHMIS
- Notclassified

Label elements

WHMIS
- No label element(s) required.

Other hazards

WHMIS
- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Whole grains	NDA	< 100%	NDA	**OSHA HCS 2012:** Not Classified	NDA
Grain dust	NDA	0% TO 5%	NDA	**OSHA HCS 2012:** Comb. Dust	NDA
Foreign Material (Such as organic plant material)	NDA	0% TO 5%	NDA	**OSHA HCS 2012:** Not Classified	NDA

Section 4: First-Aid Measures

Description of first aid measures

Inhalation
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion
- Give plenty of water to drink. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

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

Unsuitable Extinguishing Media
- Do not use strong streams of water or dry chemical if dust can be dispersed into the air.

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
- Oxides of carbon.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).
  Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Avoid generating dust.
  Clean up with soft bristle broom(s) or a vacuum approved for a class II hazardous location.
  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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Section 7 - Handling and Storage

Precautions for safe handling

Handling
- Use only with adequate ventilation. Keep away from heat, sparks, and flame. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. When improperly handled and/or exposed to an ignition source, this material may burn. Airborne dust in sufficient concentrations, confined, and exposed to an ignition source may explode. Use appropriate Personal Protective Equipment (PPE) Avoid contact with eyes. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage
- Keep container closed. Store in a cool, dry, well-ventilated place.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Whole Grain	TWAs	4 mg/m3 TWA *as Grain dust*	4 mg/m3 TWA *as Grain dust*	10 mg/m3 TWA *as Grain dust*

Exposure controls

Engineering Measures/Controls

- 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). 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 supression system or an oxygen-deficient environment. Use only appropriately classified electrical equipment.

Personal Protective Equipment

Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health OSHA

= Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White, yellow, brown, gray kernels and seeds.
Color	White, yellow, brown, gray.	Odor	No data available
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	No data available
Specific Gravity/Relative Density	No data available	Water Solubility	Negligible < 0.1 %
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	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

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization not indicated.

Conditions to avoid

- Avoid generating dust. Keep away from heat, sparks and flame.

Incompatible materials

- None known.

Hazardous decomposition products

- CO2 and H2S are a result of decomposition while oxygen "depletion" occurs during decomposition.

Section 11 - Toxicological Information

Information on toxicological effect

GHS Properties	Classification
Acute toxicity	**OSHA HCS 2012** • No data available
Skin corrosion/Irritation	**OSHA HCS 2012** • No data available
Serious eye damage/Irritation	**OSHA HCS 2012** • Eye Mild Irritation 2B
Skin sensitization	**OSHA HCS 2012** • No data available
Respiratory sensitization	**OSHA HCS 2012** • No data available
Aspiration Hazard	**OSHA HCS 2012** • No data available
Carcinogenicity	**OSHA HCS 2012** • No data available
Germ Cell Mutagenicity	**OSHA HCS 2012** • No data available
Toxicity for Reproduction	**OSHA HCS 2012** • No data available
STOT-SE	**OSHA HCS 2012** • No data available
STOT-RE	**OSHA HCS 2012** • No data available

Potential Health Effects

Inhalation

Acute (Immediate)
- Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)
- No data available

Skin

Acute (Immediate)
- Exposure to dust may cause mechanical irritation.

Chronic (Delayed) • No data available.

Eye

Acute (Immediate) • Causes eye irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate) • Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

Chronic (Delayed) • No data available

Section 12 - Ecological Information

Toxicity

• Non-mandatory section - information about this substance not compiled for this reason.

Persistence and degradability

• Non-mandatory section - information about this substance not compiled for this reason.

Bioaccumulative potential

• Non-mandatory section - information about this substance not compiled for this reason.

Mobility in Soil

• Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

• Non-mandatory section - information about this substance not compiled for this reason.

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	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

Special precautions for user • None specified.

Transport in bulk according • No data available

to Annex II of MARPOL 73/78 and the IBC Code

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute, Pressure (Sudden Release of)

Canada

Labor

Canada - WHMIS - Classifications of Substances
Not Listed
Canada - WHMIS - Ingredient Disclosure List
Not Listed

Environment

Canada - CEPA - Priority Substances List
Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
Not Listed
U.S. - OSHA - Specifically Regulated Chemicals
Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
Not Listed
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Not Listed
U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting
Not Listed
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
Not Listed

United States -California

Environment

U.S. - California - Proposition 65 - Carcinogens List
Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity
Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female
Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male
Not Listed

Section 16 - Other Information

Revision Date	• 08/11/2017
Preparation Date	• 08/11/2017
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Key to abbreviations

NDA = No Data Available