



531 GETTY COURT, SUITE C
 BENICIA, CALIFORNIA 94510

P: 707-590-7010
 F: 510-263-5778



SAFETY DATA SHEET

Transport Symbol(s)	WHMIS	NFPA	Personal Protective Equipment

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name:

ORGANIC PULSES; Adzuki Beans, Baby Lima Beans, Black Beans, Black Beluga Lentils, Black-Eyed Peas, Dark Red Kidney Beans, French Green Lentils, Garbanzo, Great Northern Beans, Green Split Peas, Green Lentils, Green Pea Fiber, Moong Dal, Mung Beans, Navy Beans, Pink Beans, Pinto Beans, Red Split Lentils, Small Red Beans, Yellow Beans, Yellow Lentils, Yellow Split Peas

Product Codes:

BAZ, BLB, BBK, BBL, BEP, BRK, BFG, BGB, BGN, BGS, BGL, BPF, BMD, BMB, BNY, BPB, BPT, BRS, BSR, BYW, BYL, BYS

Origin: Various

Manufacturer's Contact:

Edison Grain, Inc.
 531 Getty Court, Suite C
 Benicia CA 94510
 T: 707-590-7010
 F: 510-263-5778

Use of the Substance / Preparation:

Food for Human Consumption

Emergency telephone number:

(Jeffrey Barnes) 510-507-4947

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning. May form combustible dust concentrations in air (during processing and handling). Product dust may cause mild, mechanical irritation.

Appearance Dried pulses of various colors and sizes	Physical State Solid	Odor Earthy
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Classification according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS):

OSHA Defined Hazard(s)	Combustible Dust
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OSHA / GHS Label Elements

Signal Word:	Warning
Hazard Statement(s):	May form combustible dust concentrations in air (during processing and handling)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name	Organic Pulses
Description	Dried Beans and Lentils
CAS-No	Not available.

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin Contact Rinse with water.

Inhalation Move to fresh air.

Ingestion Health injuries are not known or expected under normal use.

General Advice When symptoms persist or in all cases of doubt seek medical advice.

Most important symptoms and affects, both acute and delayed

Eyes Dust may cause mechanical irritation to eyes resulting in redness or watering.

Skin Product dust may cause mild, mechanical irritation.

Inhalation Dust may cause irritation of respiratory tract.

Ingestion Health injuries are not known or expected under normal use.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Powdered material may form explosive dust-air mixtures. Fine dust dispersed in air may ignite. Risk of ignition followed by flame propagation or secondary explosions should be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Extinguishing media

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical.

Unsuitable Extinguishing Media None known.

Special hazards arising from the substance or mixture

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Acrolein.

Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge Yes (as airborne dust).

Advice for fire-fighters

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	0	Stability and Reactivity	0
Flammability	1	Physical hazard	None known



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid dust formation. Use personal protective equipment. For personal protection see section 8.

Environmental Precautions

No special environmental precautions required. Avoid discharge into sewage systems, water courses or onto ground.

Methods and Materials for Containment and Cleaning Up

Sweep up and shovel into suitable containers for disposal. For disposal information see section 13.

7. HANDLING AND STORAGE

Handling

Ensure adequate ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to NFPA61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities". Refer to 29CFR 1910.272 Grain Handling Standard.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

As an airborne dust, exposure limits pertaining to "particulates not otherwise regulated" have been provided below.

Chemical Name	ACGIH TLV	OSHA PEL	Mexico	NIOSH
Particulates not otherwise regulated	TWA: 10 mg/m ³ inhalable particles, recommended TWA: 3 mg/m ³ respirable particles, recommended	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	not listed	Not listed

Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment

Eye/face Protection.

If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended.

Skin and Body Protection

Special protective equipment is generally not required. Protective clothing and gloves may be worn to reduce the potential of mechanical irritation.

Respiratory Protection

If exposed to airborne dust, at or above the noted exposure limits, use appropriate NIOSH approved (or equivalent) respiratory protection.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Various Colors	Molecular Weight	Not applicable
Physical State	Solid	Water Solubility	Expand
Odor	Earthy	Evaporation Rate	Not applicable
Odor Threshold	No information available	Vapor Pressure	Not applicable
pH	Not applicable	Bulk Density	No data available
Flash Point	Not applicable	Vapor Density	Not applicable
Auto Ignition Temperature	Not applicable		
Boiling point	Not applicable		
Melting/Freezing Point	Not applicable		
Decomposition temperature	No information available		
Oxidizing Properties	Not applicable		
Flammability Limits in Air	Not applicable		
Viscosity (kinematic)	Not applicable		
Explosive Properties	Grain Dust: Maximum Pressure = 790 (kPa) Maximum Rate of Pressure Rise = 38 (MPa/s) Ignition Temperature = 430° C (cloud) / 230° C (layer) Minimum Ignition Energy (MEI) = 30 (mJ) [Lit. source: US Bureau of Mines, 1961.]		
Partition Coefficient (n-octanol/water)	No information available		

10. STABILITY AND REACTIVITY

Reactivity Stable under recommended use and storage conditions.

Stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Avoid dust formation.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Acrolein.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	Based on available data, no evidence of acute toxicity.
Skin corrosion/irritation	Based on available data, not, or only slightly irritating.
Serious eye damage/eye irritation	Based on available data, no evidence of serious eye damage / irritation.
Respiratory or skin sensitisation	Based on available data, not expected to be a skin or respiratory sensitiser.
Germ cell mutagenicity	Not classified. (Long history of safe use in food).
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified
STOT - single exposure	No evidence of toxicity.
STOT - repeated exposure	No evidence of toxicity.
Aspiration hazard	Based on available data, no known aspiration hazard.

Potential health effects

Eyes	Dust may cause mechanical irritation to eyes resulting in redness or watering.
Skin	Product dust may cause mild, mechanical irritation.
Inhalation	Dust may cause irritation of respiratory tract.
Ingestion	Health injuries are not known or expected under normal use.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in wastewater treatment plants.

13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Waste Disposal Methods Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.

Contaminated Packaging Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Domestic transport regulations (USA)

DOT Not regulated

Domestic transport regulations (Canada)

TDG Not regulated

Domestic transport regulations (Mexico)

MEX Not regulated

International transport regulations

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Not applicable. The product is considered to be "naturally occurring" as defined by 40 CFR 710.4(b) and is not required to be listed explicitly on the TSCA chemical inventory. This product conforms to the "substances occurring in nature" description provided in Canada Gazette, Part I Supplement dated January 26, 1991; accordingly it is not subject to the New Substances Notification Regulations and is not required to be listed on the DSL.

USA

Federal Regulations

Ozone Depleting Substances:

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

CERCLA/SARA 103-302

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)

This product is not known to contain any HAPS.

State Regulations

California Proposition 65

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source.

Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

State Right-to-Know

No known components subject to "Right-To-Know" legislation.

Canada

WHMIS Product Classification

Exempt: Food Product per Hazardous Products Act Part II Controlled Products Section 12.

WHMIS Ingredient Disclosure List IDL

No known component is listed on the WHMIS ingredients disclosure list.

(NPRI) Canadian National Pollutant Release Inventory

No known component is listed on NPRI.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Mexico

Mexico - Grade

Slight risk, Grade 1

16. OTHER INFORMATION

Prepared By: Edison Grain, Inc.

Preparation Date: February 2016, Updated July 2018

Abbreviations and acronyms

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values

CAS - Chemical Abstract Service

DOT - U.S. Department of Transportation

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IATA - International Air Transport Association Dangerous Goods Regulations

ICAO - International Civil Aviation Organization

ICL - In Commerce List (Canada)

IMDG - International Maritime Dangerous Goods Code

IMO - International Maritime Organization

MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported

MEXICO - Mexico Occupational Exposure Limits

NFPA - National Fire Protection Association

NIOSH - National Institute of Occupational Safety and Health

NZIoC - New Zealand Inventory of Chemicals (New Zealand)

OSHA - Occupational Safety & Health Administration

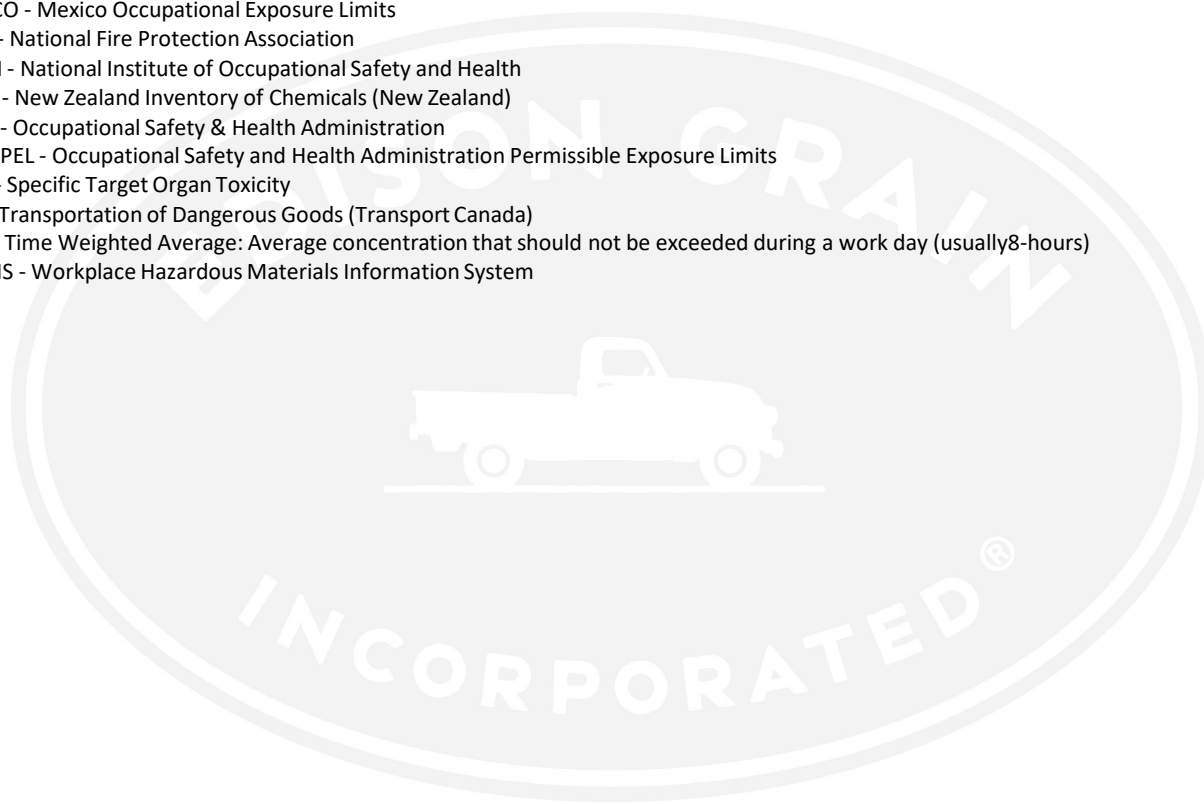
OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits

STOT - Specific Target Organ Toxicity

TDG - Transportation of Dangerous Goods (Transport Canada)

TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)

WHMIS - Workplace Hazardous Materials Information System



The information provided on this SDS is correct to the best of Edison Grain Inc.'s knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.