



## Safety Data Sheet

Material Name: VeGain

SDS ID: HJB-005

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

VeGain

**Product Description**

Vegetable protein concentrate for further manufacture of feed.

**Product Use**

Feed Additive

**Restrictions on Use**

None known

**Details of the supplier of the safety data sheet**

H.J. Baker & Bro., Inc.

415 N. McKinley

Suite 750

Little Rock, AR 72205

USA

Phone: 501-664-4870

E-mail: [kip.karges@hjbaker.com](mailto:kip.karges@hjbaker.com)

Fax: 501-661-0714

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### Section 2 - HAZARDS IDENTIFICATION

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**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Combustible Dust

**GHS Label Elements****Symbol(s)**

None needed according to classification criteria

**Signal Word**

Warning

**Hazard Statement(s)**

May form combustible dust concentrations in air.

**Precautionary Statement(s)****Prevention**

None needed according to classification criteria.

**Response**

None needed according to classification criteria.

**Storage**



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None needed according to classification criteria.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
-	Not Hazardous	99-100

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### Section 4 - FIRST AID MEASURES

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#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

#### Eyes

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: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

#### Most Important Symptoms/Effects

##### Acute

Dust may cause mechanical irritation of the respiratory tract, eyes, skin.

##### Delayed

None known

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### Section 5 - FIRE FIGHTING MEASURES

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#### Extinguishing Media

#### Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide



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**Unsuitable Extinguishing Media**  
Water

**Special Hazards Arising from the Chemical**  
Water will cause product to putrefy, heat and eventually smolder.

**Hazardous Combustion Products**  
Decomposition products on contact with water or moisture: ammonia.

**Advice for firefighters**  
Wear protective clothing and equipment suitable for the surrounding fire.

**Fire Fighting Measures**  
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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**Personal Precautions, Protective Equipment and Emergency Procedures**  
Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**  
Clear up spills immediately and dispose of waste safely.

**Environmental Precautions**  
Avoid release to the environment.

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### Section 7 - HANDLING AND STORAGE

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**Precautions for Safe Handling**  
Keep away from heat/sparks/open flame/hot surfaces - No smoking. Avoid breathing dust. Avoid contact with skin and eyes.

**Conditions for Safe Storage, Including any Incompatibilities**  
None needed according to classification criteria.  
Store in a well-ventilated place. Keep cool. Store below 120 F.

**Incompatible Materials**  
Water, Oxidizing agents

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### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Component Exposure Limits**

Limestone	1317-65-3
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NIOSH:	10 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable dust
OSHA (US):	15 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable fraction
Mexico:	10 mg/m <sup>3</sup> TWA LMPE-PPT
	20 mg/m <sup>3</sup> STEL [LMPE-CT]
Formaldehyde	50-00-0
ACGIH:	0.3 ppm Ceiling
NIOSH:	0.016 ppm TWA
	0.1 ppm Ceiling 15 min
	20 ppm IDLH
OSHA (US):	0.75 ppm TWA
	2 ppm STEL (See 29 CFR 1910.1048) 15 min; 0.5 ppm Action Level (See 29 CFR 1910.1048); 0.75 ppm TWA (See 29 CFR 1910.1048)
	2 ppm STEL (See 29 CFR 1910.1048)
Mexico:	2 ppm Ceiling; 3 mg/m <sup>3</sup> Ceiling

### EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

### Engineering Controls

Use local exhaust ventilation as needed to control dust levels and thereby reduce the risk of fire/explosion.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Dust protection eye glasses.

#### Skin Protection

Protective clothing is not required, but recommended.

#### Respiratory Protection

Mask type: Dust.

#### Glove Recommendations

Protective gloves are necessary if allergic.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Brown powder	<b>Physical State</b>	solid
<b>Odor</b>	Not applicable	<b>Color</b>	Medium brown
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	30 - 40 Lbs./Cu. Ft.
<b>Water Solubility</b>	5-20 % (by weight)	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Molecular Weight</b>	Not available

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## Section 10 - STABILITY AND REACTIVITY

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### Reactivity

Not known to occur.

### Chemical Stability

Stable under normal conditions of use.

### Possibility of Hazardous Reactions

Will not occur.

### Conditions to Avoid

Protect from excessive heat. Avoid contact with water or moisture.

### Incompatible Materials

Water, Oxidizing agents

### Hazardous decomposition products

Decomposition products on contact with water or moisture: ammonia.



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### Section 11 - TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

##### Inhalation

May cause respiratory irritation.

##### Skin Contact

May cause an allergic skin reaction.

##### Eye Contact

May cause mechanical irritation.

##### Ingestion

No information on significant adverse effects.

#### Acute and Chronic Toxicity

##### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Formaldehyde (50-00-0)

Oral LD50 Rat 100 mg/kg

Dermal LD50 Rabbit 270 mg/kg

Inhalation LC50 Rat 0.578 mg/L 4 h

##### Immediate Effects

No information on significant adverse effects.

##### Delayed Effects

No information on significant adverse effects.

##### Irritation/Corrosivity Data

Dust may cause mechanical irritation of the respiratory tract, eyes, skin.

##### Respiratory Sensitization

No data available.

##### Dermal Sensitization

May cause an allergic skin reaction. Hypersensitivity reactions may also occur.

#### Component Carcinogenicity

Formaldehyde	50-00-0
ACGIH:	A2 - Suspected Human Carcinogen
IARC:	Monograph 100F [2012]; Monograph 88 [2006]; Monograph 62 [1995]; Supplement 7 [1987] (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen
DFG:	Category 4 (no significant contribution to human cancer)



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OSHA:	Present
OSHA:	see 29 CFR 1910.1048
NIOSH:	potential occupational carcinogen

### Germ Cell Mutagenicity

No data available.

### Tumorigenic Data

No data available

### Reproductive Toxicity

No data available.

### Specific Target Organ Toxicity - Single Exposure

None known

### Specific Target Organ Toxicity - Repeated Exposure

None known

### Aspiration hazard

No data available.

### Medical Conditions Aggravated by Exposure

No data available.

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## Section 12 - ECOLOGICAL INFORMATION

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### Component Analysis - Aquatic Toxicity

Formaldehyde	50-00-0
Fish:	LC50 96 h Pimephales promelas 22.6 - 25.7 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 1510 µg/L [static]; LC50 96 h Brachydanio rerio 41 mg/L [static]; LC50 96 h Oncorhynchus mykiss 0.032 - 0.226 mL/L [flow-through]; LC50 96 h Oncorhynchus mykiss 100 - 136 mg/L [static]; LC50 96 h Pimephales promelas 23.2 - 29.7 mg/L [static]
Invertebrate:	LC50 48 h Daphnia magna 2 mg/L IUCLID; EC50 48 h Daphnia magna 11.3 - 18 mg/L [static] EPA

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## Section 13 - DISPOSAL CONSIDERATIONS

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### Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations. General sanitary: Landfill.



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### Section 14 - TRANSPORT INFORMATION

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**US DOT Information:**

UN/NA #: Not Regulated

**IATA Information:**

UN#: Not Regulated

**IMDG Information:**

UN#: Not Regulated

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### Section 15 - REGULATORY INFORMATION

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**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Formaldehyde	50-00-0
SARA 302:	500 lb TPQ
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lb final RQ; 45.4 kg final RQ
OSHA (safety):	1000 lb TQ
SARA 304:	100 lb EPCRA RQ

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes
Formaldehyde	50-00-0	Yes	Yes	Yes	Yes	Yes

**The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

WARNING! This product contains a chemical known to the state of California to cause cancer



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Formaldehyde	50-00-0
Carc:	carcinogen , 1/1/1988 (gas)

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Formaldehyde	50-00-0
	0.1 %

### Component Analysis - Inventory

Limestone (1317-65-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECL/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	NSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

### Formaldehyde (50-00-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECL/KECL	KR - TCCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

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## Section 16 - OTHER INFORMATION

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### Summary of Changes

New SDS: 12/28/2015

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™



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- ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### Other Information

#### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.