



# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Treat Symptomatically

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May form combustible dust concentrations in air.  
Reactivity : Finely dispersed particles form explosive mixtures in air.

### 5.3. Advice for firefighters

Protection during firefighting : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel  
: Avoid dust formation. Use personal protective equipment.

#### 6.1.2. For emergency responders

Protective equipment : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  
6SHELDOJLUHJLKWLBUREHGUVH : Do not use direct hose stream if dust can be dispersed into air. Under the proper conditions, grain can burn. Airborne dust in sufficient concentrations when confined and exposed to a sufficient ignition source can fuel an explosion.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Minimize generation of dust which may be combustible. In case of large spillages: Shovel or sweep up and put in a closed container for disposal.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation.  
Hygiene measures : Use good housekeeping practices during storage, transfer, handling, to avoid excessive dust accumulation. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry, well ventilated area. Avoid dispersion of dust in air and avoid exposure to potential ignition

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

		: HDWRDWD GEDUOH ; fUjb 8 i gh lbch c#k fY[ i'UhYXL
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	mg/m <sup>3</sup> B B B K B U H V
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> B B W R W B U H V

### 8.2. Exposure controls

Appropriate engineering controls : Minimize generation of dust. Ensure good ventilation of the work station. 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  
Eye 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 exceeding OSHA PEL, use appropriate NIOSH approved (or equivalent) respiratory protection

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Color	: tan to brown, gray
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: 0
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: Not applicable
Relative vapor density at 20 °C	: No data available
Water Solubility	: Practically Insoluble
Bulk Density	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available

#### \*\*\*NOTE:

When grain dust is dispersed into the air in sufficient concentrations, grain dust can explode in the presence of an ignition source. Do not allow grain dust to become dispersed into the air, even by the extinguishing agent. Minimum explosive concentration is 55g/m<sup>3</sup>. Moisture content, particle size, caloric properties and specific ingredients also affect the explosiveness of grain dust.

For an explosion to occur, four conditions must exist: 1) Oxygen must be present. 2) There must be an ignition source (included but not limited to electrical short, sparks, etc.). 3) There must be fuel (grain dust in suspension). 4) there must be containment of suspended grain dust (silo, vessel, indoors, etc). Although an explosion will not occur if there is no containment, the dust can still ignite, resulting in fire.

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Finely dispersed particles can form explosive mixtures in air when in confined spaces.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Dispersing dust in air above MEC. Exposure to potential ignition sources.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion, forms: carbon oxides (CO and CO<sub>2</sub>) and H<sub>2</sub>S.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Routes of entry:** Inhalation, skin, and eyes. Ingestion is not likely

**Acute toxicity:** May be mechanical irritant to skin and eyes. Excessive inhalation of grain dusts may affect the nose, throat and lungs.

**Chronic toxicity:** Repeated and prolonged inhalation of grain dusts may affect the respiratory system. Smokers have an increased risk of respiratory effects.

**Signs and Symptoms or exposure:** Irritation to the skin, eyes, nose or throat may occur. Some individuals may experience coughing.

**Medical Conditions generally aggravated by exposure:** Allergies and respiratory ailments.

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Carcinogenicity	: No evidence of carcinogenicity.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Based on available data, no known aspiration hazard.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.
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#### 12.2. Persistence and degradability

##### Whole Grain, Grain, Grain Dust

Persistence and degradability	Readily Biodegradable.
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#### 12.3. Bioaccumulative potential

##### Whole Grain, Grain, Grain Dust

Bioaccumulative potential	Not established.
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#### 12.4. Mobility in soil

##### Whole Grain, Grain, Grain Dust

Ecology - soil	Dispersible in water.
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#### 12.5. Other adverse effects

Effect on global warming	Not established
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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Potential dust explosion hazard.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

Class (IMDG)	: Not regulated for transport
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#### Air transport

Class (IATA)	: Not regulated for transport
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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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### 15.2. International regulations

#### National regulations

##### Whole Grain, Grain, Grain Dust

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.

#### SARA 302

Section 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 302.

**SARA 311/312** Hazardous Categorization: None known

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

This product is not known to contain any HAPS.

All electrical equipment must be suitable for use in hazardous atmospheres involving combustible dust in accordance with **29 CFR 1910.307**. The National Electrical Code **NFPA 70**, contains guidelines for determining the type and design of equipment and installation, which will meet this requirement.

### 15.3. US State regulations

No known components subject to "Right-To-Know" legislation in the following States: Massachusetts. Minnesota. New Jersey. Pennsylvania.

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Full text of H-phrases:

H232	May form combustible dust concentrations in air
H317	May cause an allergic skin reaction
H334	May cause allergy, asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

Revision Date: 11/16/2019

\*\*New SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. 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.*