

# Barley/Wheat Malt Dust

Safety Data Sheet

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

Revision date: 04/05/2013

Version: 1.3

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### Product Identifier

**Substance name:** Barley/Wheat Malt Dust

### Intended Use Of The Product

**Use of the substance/mixture:** This is a byproduct of handling, storage, and shipping of barley and wheat malt.

### Name, Address, And Telephone Of The Responsible Party

#### **Company**

GrainCorp Malt  
1705 NW Harborside Drive  
PO Box 1529  
Vancouver, WA 98668  
360-693-3661  
[www.graincorp malt.com](http://www.graincorp malt.com)

#### **Manufacturer(s)**

Great Western Malting Company  
1705 NW Harborside Drive  
Vancouver, WA, USA 98660

Canada Malting Company  
3316 Bonnybrook Road, SE  
Calgary, AB, Canada T2G4M9

Bairds Malt Ltd.  
Station Maltings  
Witham, Essex, United Kingdom, CM8 2DU

Barrett Burston Malting  
15 Gough Street  
Richmond, Victoria, Australia, 3121

Schill Malz  
Ludwig Scwamb Strasse  
67574 Osthofen, Germany

### Emergency Telephone Number

**Emergency number** : 360-693-3661

## SECTION 2: HAZARDS IDENTIFICATION

### Classification Of The Substance Or Mixture

#### **GHS-US classification**

Comb. Dust

### Label Elements

#### **GHS-US labeling**

**Signal word (GHS-US)** : Warning

**Hazard statements (GHS-US)** : May form combustible dust concentrations in air

**Other Hazards** Inhalation may aggravate those with pre-existing conditions including: skin, eye, and respiratory conditions.

**Unknown acute toxicity (GHS US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

**Name** : Barley/Wheat Malt Dust

Name	Product Identifier	% (w/w)	GHS-US classification
Grain dust (oat, wheat, barley)	RR-00014-6	100	Comb. Dust

Full text of H-phrases: see section 16

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### SECTION 4: FIRST AID MEASURES

#### Description Of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**Skin Contact:** Rinse with plenty of water.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Ingestion:** Rinse mouth. Do NOT induce vomiting.

#### Most Important Symptoms And Effects Both Acute and Delayed

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Skin Contact:** Dust may cause irritation in skin folds or by contact in combination with tight clothing.

**Eye Contact:** Dust from this product may cause minor mechanical eye irritation.

**Ingestion:** None under normal use.

**Chronic symptoms:** May cause obstructive pulmonary disease, chronic bronchitis, asthma, and grain fever after long exposures. May cause respiratory sensitization and other respiratory problems in some individuals.

#### Indication Of Any Immediate Medical Attention And Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing Media

**Suitable extinguishing media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media:** Do not use a heavy water stream. Use of heavy water stream may spread fire.

#### Special Hazards Arising From The Substance Or Mixture

**Fire hazard:** Combustible Dust. Dust explosion hazard in air. Supports combustion at high temperatures. Under conditions of fire this material may produce: Carbon dioxide. Carbon monoxide.

**Explosion hazard:** Avoid dust clouds in combination with static electricity. Dust clouds can be explosive.

**Reactivity:** Stable at ambient temperature and under normal conditions of use.

#### Advice For Firefighters

**Precautionary measures fire:** Not available

**Firefighting instructions:** Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment And Emergency Procedures

**General measures:** Avoid generating dust. Handle in accordance with good industrial hygiene and safety practice. Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation.

#### For Non-Emergency Personnel

**Protective equipment:** Use appropriate personal protection equipment (PPE).

**Emergency procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters.

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### **Methods And Material For Containment And Cleaning Up**

**Methods for cleaning up:** Collect spillage. Avoid generation of dust during clean-up of spills. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

### **Reference To Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions For Safe Handling**

**Precautions for safe handling:** Take precautionary measures against static discharge.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work

### **Conditions For Safe Storage, Including Any Incompatibilities**

**Storage conditions:** Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, heat sources., ignition sources. Keep container closed when not in use. Protect from moisture.

**Incompatible materials:** Strong acids. Strong bases. Strong oxidizers

**Specific End Use(s)** This is a byproduct of handling, storage, and shipping of barley and wheat malt.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

Grain dust (oat, wheat, barley) (RR-00014-6)		
<b>USA ACGIH</b>	ACGIH TWA	4 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA)	10 mg/m <sup>3</sup>
<b>United Kingdom HSE</b>	PEL (TWA)	10 mg/m <sup>3</sup>
<b>Canada COHSR</b>	PEL (TWA)	10 mg/m <sup>3</sup>

### **Exposure Controls**

**Appropriate engineering controls:** Provide adequate ventilation to minimize dust concentrations. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed.

**Personal protective equipment:** Dust formation: dust mask. Gloves. Protective goggles



**Materials for protective clothing:** Not available

**Hand protection:** Wear protective gloves

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Not available

**Respiratory protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

**Other information:** When using, do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **Information On Basic Physical And Chemical Properties**

<b>Physical state</b>	: Solid
<b>Appearance</b>	: Dust, brown to black
<b>Odour</b>	: Mild Bean-like
<b>Odour threshold</b>	: Not available
<b>pH</b>	: Not available
<b>Relative evaporation rate (butylacetate=1)</b>	: Not available

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<b>Melting point</b>	: Not available
<b>Freezing point</b>	: Not available
<b>Boiling point</b>	: Not available
<b>Flash point</b>	: Not available
<b>Auto-ignition temperature</b>	: Not available
<b>Decomposition Temperature</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Lower flammable limit</b>	: Not available
<b>Upper flammable limit</b>	: Not available
<b>Vapour pressure</b>	: Not available
<b>Relative vapour density at 20 °C</b>	: Not available
<b>Relative density</b>	: Not available
<b>Specific gravity density</b>	: Not available
<b>Solubility</b>	: Not available
<b>Log Pow</b>	: Not available
<b>Log Kow</b>	: Not available
<b>Viscosity, kinematic</b>	: Not available
<b>Viscosity, dynamic</b>	: Not available
<b>Explosion data - sensitivity to mechanical impact</b>	: Not available
<b>Explosion data - sensitivity to static discharge</b>	: Not available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Stable at ambient temperature and under normal conditions of use.

**Chemical Stability** Stable under normal conditions.

**Possibility Of Hazardous Reactions** Hazardous polymerization will not occur.

**Conditions To Avoid** Direct sunlight. Extremely high or low temperatures. Protect from moisture. Use good housekeeping practices during storage, transfer, handling, to avoid excessive dust accumulation.

**Incompatible Materials** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products** Carbon oxides (CO, CO<sub>2</sub>)

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information On Toxicological Effects - Product

**Acute toxicity** : Not classified

**LD50 and LC50 Data** Not available

**Skin corrosion/irritation:** Not classified **pH:** 6 - 8 (0.5% Soln)

**Serious eye damage/irritation:** Not classified **pH:** 6 - 8 (0.5% Soln)

**Respiratory or skin sensitisation:** Not classified

**Germ cell mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified

**Aspiration hazard:** Not classified

**Symptoms/injuries after inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Symptoms/injuries after skin contact:** Dust may cause irritation in skin folds or by contact in combination with tight clothing.

**Symptoms/injuries after eye contact:** Dust from this product may cause minor eye irritation.

**Symptoms/injuries after ingestion:** None under normal use.

### Information On Toxicological Effects - Ingredient(s)

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**LD50 and LC50 Data** - Not available

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** Not available

#### **Persistence And Degradability**

<b>Barley/Wheat Malt Dust</b>	
Persistence and degradability	Not established.

#### **Bioaccumulative Potential**

<b>Barley/Wheat Malt Dust</b>	
Bioaccumulative potential	Not established.

**Mobility In Soil** Not available

#### **Other Adverse Effects**

**Other information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste disposal recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

### SECTION 14: TRANSPORT INFORMATION

In accordance with ICAO/IATA/DOT/TDG

**UN Number** Not regulated for transport

**UN Proper Shipping Name** Not regulated for transport

**Additional information** Not regulated for transport

**Overland transport** Not regulated for transport

**Transport by sea** Not regulated for transport

**Air transport** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### **US Federal regulations**

This product or its components are not listed on any US federal regulatory lists.

#### **US State regulations**

Grain dust (oat, wheat, barley) (RR-00014-6)	
<b>State or local regulations</b>	U.S. – California – Occupational Exposure Limits – PELs U.S. – Connecticut – Occupational Exposure Limits - TWAs U.S. - Massachusetts - Right To Know List U.S. - Michigan - Occupational Exposure Limits - TWAs U.S. - Minnesota - Hazardous Substance List U.S. - Minnesota - Permissible Exposure Limits - TWAs U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S. - Oregon - Permissible Exposure Limits - TWAs U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Tennessee - Occupational Exposure Limits - TWAs U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term U.S. - Vermont - Permissible Exposure Limits - TWAs U.S. - Hawaii - Occupational Exposure Limits - TWAs U.S. - Idaho - Occupational Exposure Limits – TWAs

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U.S. - Washington - Permissible Exposure Limits - STELS U.S. - Washington - Permissible Exposure Limits - TWAs
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### SECTION 16: OTHER INFORMATION

**Data sources** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**

Comb. Dust	Combustible Dust
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*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.*

SDS US (GHS HazCom)