

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

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)		
USA ACGIH	ACGIH TWA	4 mg/m ³
USA OSHA	OSHA PEL (TWA)	10 mg/m ³
United Kingdom HSE	PEL (TWA)	10 mg/m ³
Canada COHSR	PEL (TWA)	10 mg/m ³

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

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

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Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower flammable limit	: Not available
Upper flammable limit	: Not available
Vapour pressure	: Not available
Relative vapour density at 20 °C	: Not available
Relative density	: Not available
Specific gravity density	: Not available
Solubility	: Not available
Log Pow	: Not available
Log Kow	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available
Explosion data - sensitivity to mechanical impact	: Not available
Explosion data - sensitivity to static discharge	: 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, CO₂)

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

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Persistence and degradability	Not established.

Bioaccumulative Potential

Barley/Wheat Malt Dust	
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)	
State or local regulations	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

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

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)