1. Identification

1.1. Product identifier
Product Identity                Wheat Flour, Bran, Middlings and Germ
Alternate Names                Wheat Flour, Bran, Middlings and Germ

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use                    See Technical Data Sheet.
Application Method              See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Company Name                   Grain Craft
                                201 W. Main Street, Suite 203
                                Chattanooga, TN 37408

Emergency
Emergency Telephone No.         423-265-2313
Customer Service: Grain Craft, Inc. 423-265-2313

2. Hazard(s) identification

2.1. Classification of the substance or mixture
Combustible Dust               May form combustible dust concentrations in air.

2.2. Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

**Warning**
May form combustible dust concentrations in air.

**[Prevention]:**
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P280 Wear protective gloves / eye protection / face protection.

**[Response]:**
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

**[Storage]:**
No GHS storage statements

**[Disposal]:**
No GHS disposal statements
3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat flour</td>
<td>75 - 100</td>
<td>Combustible Dust</td>
<td>[1]</td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Wash skin thoroughly with soap and water.

4.2. Most important symptoms and effects, both acute and delayed

Overview
Asthmatics, allergic and hypersensitive persons may be sensitive to grain products. The dust may cause irritation to the skin, eyes or respiratory tract. If the user's process generates respirable dust, then respiratory protection must be used. Smokers have an increased risk to respiratory effects.

Moderate to severe symptoms of cough and sputum production.

Respiratory conditions may be aggravated by chronic or acute exposures.

5. Fire-fighting measures

5.1. Extinguishing media
Water, water fog, foam, dry chemical powder, carbon dioxide

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: No hazardous decomposition data available.
Keep away from heat / sparks / open flames / hot surfaces - No smoking.
Ground / bond container and receiving equipment.
Use explosion-proof electrical / ventilating / light / equipment.
5.3. Advice for fire-fighters
Straight streams may disperse dust into air. Dust dispersed by hose streams may explode.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
Clean up: vacuum, scoop, shovel or sweep. Milled grain products are combustible but not generally flammable. The dispersal of milled grain products into confined atmospheres at high density (over 50 mg/m$^3$) could produce product and air mixtures that are ignitable or explosive.

7. Handling and storage

7.1. Precautions for safe handling
Avoid dust generation when handling product to minimize dust explosion potential.
See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities
Handle containers carefully to prevent damage and spillage.
Keep container tightly closed.
Incompatible materials: No data available.
Store in a cool, dry place, away from high heat sources

7.3. Specific end use(s)
No data available.
8. Exposure controls and personal protection

8.1. Control parameters

Exposure

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0130498-22-5</td>
<td>Wheat flour</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

The exposure limits for nuisance dust are: OSHA PEL: 15 mg/m3 (50 mppcf*) TWA, ACGIH 10 mg/m3.

Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0130498-22-5</td>
<td>Wheat flour</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Respiratory: Approved dust masks (MSHA or NIOSH)
Eyes: Goggles, if necessary.
Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

- Appearance: White to off white Solid
- Odor: Odorless to natural wheat odor
- Odor threshold: Not determined
- pH: Not Measured
- Melting point / freezing point: Not Measured
- Initial boiling point and boiling range: Not Measured
- Flash Point: 390-500 F
- Evaporation rate (Ether = 1): Not Measured
- Flammability (solid, gas): Not Applicable
- Upper/lower flammability or explosive limits: Lower Explosive Limit: 50 g/m^3
  Upper Explosive Limit: Not Measured
Safet

y Data Sheet

Wheat Flour, Bran, Middlings and Germ

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Vapor pressure (Pa)                     Not Measured
Vapor Density                           Not Measured
Specific Gravity                        32-40 lb/cu ft
Solubility in Water                     Soluble
Partition coefficient n-octanol/water (Log Kow) Not Measured
Auto-ignition temperature               Not Measured
Decomposition temperature               Not Measured
Viscosity (cSt)                         Not Measured

9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Dense concentration in air

10.5. Incompatible materials
No data available.

10.6. Hazardous decomposition products
No hazardous decomposition data available.

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat flour - (130498-22-5)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).
Safety Data Sheet
Wheat Flour, Bran, Middlings and Germ

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### Classification

<table>
<thead>
<tr>
<th>Hazard Description</th>
<th>Category</th>
<th>Acute toxicity (oral)</th>
<th>Acute toxicity (dermal)</th>
<th>Acute toxicity (inhalation)</th>
<th>Skin corrosion/irritation</th>
<th>Serious eye damage/irritation</th>
<th>Respiratory sensitization</th>
<th>Skin sensitization</th>
<th>Germ cell mutagenicity</th>
<th>Carcinogenicity</th>
<th>Reproductive toxicity</th>
<th>STOT-single exposure</th>
<th>STOT-repeated exposure</th>
<th>Aspiration hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>---</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### 12. Ecological information

#### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat flour - (130498-22-5)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

Milled wheat products are biodegradable.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects

No data available.

### 13. Disposal considerations

#### 13.1. Waste treatment methods

According to federal, state, and local regulations. Milled wheat products are biodegradable.
### 14. Transport information

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2. UN proper shipping name</th>
<th>DOT Hazard Class: Not Applicable</th>
<th>IMDG: Not Applicable</th>
<th>Air Class: Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Regulated</td>
<td>Not Applicable</td>
<td>Sub Class: Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3. Transport hazard class(es)</th>
<th>DOT Hazard Class: Not Applicable</th>
<th>IMDG: Not Applicable</th>
<th>Air Class: Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Sub Class: Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4. Packing group</th>
<th>DOT Hazard Class: Not Applicable</th>
<th>IMDG: Not Applicable</th>
<th>Air Class: Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Sub Class: Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5. Environmental hazards</th>
<th>IMDG</th>
<th>14.6. Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Pollutant: No</td>
<td></td>
<td>No further information</td>
</tr>
</tbody>
</table>

### 15. Regulatory information

**Regulatory Overview**
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act (TSCA)**
All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification**
Not Regulated

**US EPA Tier II Hazards**
Fire: Yes
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): No
Delayed (Chronic): No

**EPCRA 311/312 Chemicals and RQs:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Not applicable

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

End of Document