1. Product and company identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>Distillers Dried Grains with Solubles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonym</td>
<td>DDG, DDGS</td>
</tr>
<tr>
<td>Material uses</td>
<td>Animal feed stock and fertilizer.</td>
</tr>
<tr>
<td>Supplier/Manufacturer</td>
<td>Hankinson Renewable Energy, LLC.</td>
</tr>
<tr>
<td></td>
<td>9230 County Road 1</td>
</tr>
<tr>
<td></td>
<td>Hankinson, ND 58041</td>
</tr>
<tr>
<td></td>
<td>Tel: 701-242-9400</td>
</tr>
</tbody>
</table>

MSDS authored by: KMK Regulatory Services Inc.


2. Hazards identification

**Emergency overview**

**Physical state**: Granular solid.

**Color**: Brown.

**Odor**: Toasted. [Slight]

**Hazard statements**: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**Precautionary measures**: No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

**OSHA/HCS status**: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**Potential acute health effects**

**Inhalation**: No known significant effects or critical hazards.

**Ingestion**: No known significant effects or critical hazards.

**Skin**: No known significant effects or critical hazards.

**Eyes**: No known significant effects or critical hazards.

**Potential chronic health effects**

**Chronic effects**: No known significant effects or critical hazards.

**Carcinogenicity**: No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity**: No known significant effects or critical hazards.

**Developmental effects**: No known significant effects or critical hazards.

**Fertility effects**: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Inhalation**: No specific data.

**Ingestion**: No specific data.

**Skin**: No specific data.

**Eyes**: No specific data.

**Medical conditions aggravated by over-exposure**: None known.

See toxicological information (Section 11)
3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

**Eye contact**
- Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

**Skin contact**
- In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.

**Inhalation**
- Move exposed person to fresh air. Get medical attention if symptoms occur.

**Ingestion**
- Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

**Notes to physician**
- No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

**Flammability of the product**
- No specific fire or explosion hazard.

**Extinguishing media**
- Suitable: Use an extinguishing agent suitable for the surrounding fire.
- Not suitable: None known.

**Hazardous decomposition products**
- No specific data.

**Special protective equipment for fire-fighters**
- No special protection is required.

6. Accidental release measures

**Personal precautions**
- Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions**
- Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up**
- Spill: Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

**Handling**
- Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

**Storage**
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
8. Exposure controls/personal protection

Canada

Occupational exposure limits
No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures: Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protection

Respiratory: Not required under normal conditions of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Use gloves appropriate for work or task being performed. Recommended: Disposable vinyl gloves.

Eyes: Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin: No special protective clothing is required.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

Physical state: Granular solid.
Flash point: Not available.
Burning time: Not available.
Burning rate: Not available.
Auto-ignition temperature: Not available.
Flammable limits: Not available.
Color: Brown.
Odor: Toasted. [Slight]
pH: Not available.
Boiling/condensation point: Not available.
Melting/freezing point: Not available.
Relative density: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Volatility: 10% (w/w)
Evaporation rate: Not available.
SADT: Not available.
Viscosity: Not available.
Ionicity (in water): Not available.
Dispersibility properties: Not available.
Solubility: Not applicable.
10. Stability and reactivity

- **Chemical stability**: The product is stable.
- **Conditions to avoid**: No specific data.
- **Incompatible materials**: No specific data.
- **Hazardous decomposition products**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

- **Acute toxicity**: No specific data.
- **Irritation/Corrosion**
  - **Skin**: There are no data available.
  - **Eyes**: There are no data available.
  - **Respiratory**: There are no data available.
- **Sensitizer**
  - **Skin**: There are no data available.
  - **Respiratory**: There are no data available.
- **IDLH**: Not available.
- **Synergistic products**: Not available.

12. Ecological information

- **Ecotoxicity**: Not established.

13. Disposal considerations

- **Waste disposal**: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

- **International transport regulations**: Not regulated by any transport mode.

15. Regulatory information

- **United States**
  - **HCS Classification**: Not determined.
  - **U.S. Federal regulations**
    - United States inventory (TSCA 8b): Not determined.
    - SARA 302/304/311/312 extremely hazardous substances: No products were found.
    - SARA 302/304 emergency planning and notification: No products were found.
    - SARA 302/304/311/312 hazardous chemicals: No products were found.
    - SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
15. Regulatory information

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)**
- Not listed

**Clean Air Act Section 602 Class I Substances**
- Not listed

**Clean Air Act Section 602 Class II Substances**
- Not listed

**DEA List I Chemicals (Precursor Chemicals)**
- Not listed

**DEA List II Chemicals (Essential Chemicals)**
- Not listed

**State regulations**
- **Massachusetts**: This material is not listed.
- **New York**: This material is not listed.
- **New Jersey**: This material is not listed.
- **Pennsylvania**: This material is not listed.
- **California Prop. 65**: No products were found.

**Canada**
- **WHMIS (Canada)**: Not controlled under WHMIS (Canada).

**Canadian lists**
- **Canadian NPRI**: This material is not listed.
- **CEPA Toxic substances**: This material is not listed.
- **Canada inventory**: Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**International regulations**

**International lists**
- **Australia inventory (AICS)**: Not determined.
- **China inventory (IECSC)**: Not determined.
- **Japan inventory**: Not determined.
- **Korea inventory**: Not determined.
- **New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- **Philippines inventory (PICCS)**: Not determined.

16. Other information

**Label requirements**: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

**Hazardous Material Information System (U.S.A.)**

- **Health**: 0
- **Flammability**: 0
- **Physical hazards**: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)**

- **Health**: 0
- **Flammability**: 0
- **Instability**: 0

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16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

References

- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG.

History

Date of issue mm/dd/yyyy : 08/15/2011
Date of previous issue : 05/11/2010
Version : 2

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.