

Material Safety Data Sheet

DISTILLERS DRIED GRAINS WITH SOLUBLES

Section 1 - Product Identification

Product Name : Distillers Dried Grains with Solubles
CAS No. : Not available
Synonym : DDG; DDGS; Distillers' Grains; Distillers' Dried Grains
Company Identification : Tradeasia International Pte. Limited
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Section 2 – Composition/Information on Ingredients

Substances

Name of substance	Distillers Dried Grains with Solubles
Identifiers	
CAS No	Not available
Molecular formula	Not available
Molar Mass	Not available

Section 3 – Hazardous Ingredients & Occupational Exposure Limits

Classification of the substances or mixture

GHS INFORMATION

Classification: Combustible Dust, Category 1

Label Elements

Hazard Pictogram(s): None.

Signal Word: Warning

Hazard Statements: May form combustible dust concentrations in air.

Precautionary Statements

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling. Storage Keep container tightly closed.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

Section 4 – First-Aid Measures

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

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.

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.

Section 5 – Employee Protection

Suitable extinguishing media: Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: None known.

Special protective equipment and precautions for firefighters: Use protective equipment appropriate for surrounding materials.

Section 6 – Accidental Release Measures

Emergency Procedures: Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Personal Precautions: Do not touch or walk through spilled material. Keep away from heat, sparks and flame. Keep container closed (and grounded). Prevent dust accumulation (to minimize explosion hazard).

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways.

Methods for Containment: Do not flush to sewer or allow to enter waterways.

Methods for Clean-Up: Use explosion-proof equipment. Dust can be a fire or explosion hazard. Sweep up and shovel into suitable containers for disposal. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.

Section 7 – Handling and Storage

Handling: Do not breathe dusts. Do not swallow. Minimize dust generation and accumulation. Airborne dusts are potentially explosive. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. To avoid fire or explosion, ground and bond container and receiving equipment (and ground personnel) before transferring material.

Storage: Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from incompatible materials. Keep out of the reach of children.

Section 8 – Exposure Controls/Personal Protection (later)

Exposure Limits/Guidelines:

Ingredients: Dry Distillers Grain

ACGIH: 4 mg/m³ TLV

NIOSH: 4 mg/m³

OSHA-FINAL PELs: 10 mg/m³

Engineering Controls: : Provide exhaust ventilation or other engineering controls to keep the airborne concentration of dust below their respective threshold limit value. Ensure that eyewash station and/or safety shower is available.

Ventilation: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of dust below their respective threshold limit value. Ensure that eyewash station and/or safety shower is available.

Personal Protective Equipment

Eyes: Safety glasses or goggles; Do not wear contacts when working with this material.

Skin: : Clean body covering as needed.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: : Provide a NIOSH/MSHA approved respirator or dust mask if exposure limits are exceeded.

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Opaque. Granular.

Colour: Light brown. Yellowish.

Odour: Cooked bread. Corn.

Odour Threshold: Not available.

Physical State: Solid. pH: Not available.

Melting Point / Freezing Point: Not available.

Initial Boiling Point: Not available. Boiling Range: Not available.

Flash Point: Not available.

Evaporation Rate: Not available.

Flammability (solid, gas): May form combustible dust concentrations in air.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Relative Density: Not available.

Solubilities: Not available.

Partition Coefficient: nOctanol/Water: Not available.

Auto-ignition Temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: Not available.

Percent Volatile, wt. %: Not available.

VOC content, wt. %: 12 to 13 %

Density: Not available.

Coefficient of Water/Oil Distribution: Not available.

Other information

No data available

Section 10 – Stability and Reactivity

Reactivity: Contact with incompatible materials. Sources of ignition. Exposure to heat.

Chemical Stability: Stable under normal storage conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to heat.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Not available.

Section 11 – Toxicological Information

Acute Toxicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity following single exposure: No specific target organs noted

Specific target organ toxicity following repeated exposure: No specific target organs noted

Aspiration hazard: No data available

Other Effects: No data available

Section 12 – Ecological Information

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Section 13 – Disposal Considerations

Disposal instructions: Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 – Transport Information

Not a dangerous good.

Not regulated.

Section 15 – Regulatory Information

1. US Federal regulations

This product is not hazardous according to OSHA 29CFR 1910.1200.

2. International regulations

CANADA

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

EU-Regulations

No data available

3. National regulations

No additional information available

4. US State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Additional Information

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