

 Green Energy Chemicals	SAFETY DATA SHEET DISTILLER'S DRIED GRAINS WITH SOLUBLES		Document No	SDS.004
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SECTION 1: Identification Of The Substance/Mixture And Of The Company/Undertaking

1.1. Product Identifier

Material Name Distiller's Dried Grains with Solubles (DDGS)

1.2. Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against Animal Nutrition, Feeding Material

1.3. Details Of The Supplier Of The Safety Data Sheet

Company Identification GREEN ENERGY CHEMICALS ENERJİ KİMYASALLARI SAN. TİC. LTD. ŞTİ. Güneri Mah. OSB 8 Sokak No:7/Z01 Kozan / ADANA / TURKEY
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1.4. Emergency Phone # Emergency Health: 112
UZEM The National Counseling Center of Poison: 114

SECTION 2: Hazard Identification

2.1. Classification Of The Substance Or Mixture

According to Globally Harmonized System of Classification and Labelling of Chemicals and Regulation (EC) No 1272/2008 (CLP): Not classified

2.2. Label Elements

Labeling According to Regulation (EC) No 1272/2008 [CLP/GHS]

Signal Word Not applicable
Hazard Statements Not applicable
Symbol Not applicable
Precautionary Statements Not applicable

2.3. Other Hazards Concentrated DDGS dust in air suspension may become explosive under confined conditions.

SECTION 3: Composition/Information On Ingredients

Chemical Name Distiller's Dried Grains
CAS Number -
EC Number -
Content (%) 100%

SECTION 4: First Aid Measures

4.1. Description Of First Aid Measures

General Advice Material is dried grain derivative of the alcohol distillation process. Inhalation of fines in the dust may cause an allergic reaction in sensitive individuals (pneumoconiosis).
Inhalation Remove patient from exposure to fresh air. Get medical attention if symptoms develop or persist.
Skin Contact After contact with skin, take off immediately all contaminated clothing. Wash skin with water/shower. Get medical attention if skin irritation develops and persists.
Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. Get medical attention if symptoms occur.
Self-Protection Of First Aider Not applicable

4.2. Most Important Symptoms And Effects, Both Acute And Delayed

Possible physical irritant from dust particles.

4.3. Indication Of Any Immediate Medical Attention And Special Treatment Needed

No further first aid information is available.

SECTION 5: Fire - Fighting Measures

5.1. Extinguishing Media

Suitable Extinguishing Media Water spray, fog or regular foam, carbon dioxide, dry chemical.
Unsuitable Extinguishing Media None.
Fire Fighting Measures Move container from fire area if it can be done without risk. Do not scatter spilled material with highpressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

5.2. Special Hazards Arising From The Substance Or Mixture

Carbon oxides including carbon monoxide and carbon dioxide

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3. Advice For Firefighters

In Case Of Fire

Wear self-contained breathing apparatus. Wear suitable protective clothing

Flammability Class (OSHA)

Not applicable

Hazardous Combustion Products

Carbon dioxide, carbon monoxide and unidentified organic compounds.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment And Emergency Procedures

Use personal protective equipment as required. Contain spill and monitor for excessive dust accumulation. Avoid unnecessary personnel and equipment traffic in the spill area.

6.2. Environmental Precautions

Not available

6.3. Methods And Material For Containment And Cleaning Up

For land spill, eliminate ignition sources; isolate hazard area and deny entry to unauthorized or unprotected personnel; remove spilled material so as to avoid creating airborne dust. Spilled waste material is combustible but is not classified as a hazardous material. For water spill, small spills will dilute naturally with the water and will biodegrade.

6.4. Reference To Other Sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

SECTION 7: Handling And Storage

7.1. Precautions For Safe Handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Minimize dust generation and accumulation. Protect material from direct sunlight. When using do not smoke. Do not use in areas without adequate ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions For Safe Storage, Including Any Incompatibilities

Keep away from heat, sparks and open flame. No smoking. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific End Use(s)

Refer to section 1.2. Relevant identified uses

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

Component Exposure Limits

Distiller's Dried Grains (DDG), Distiller's Dried Grains with Solubles (DDGS), as grain dust

OSHA PEL:

ACGIH TWA:

NIOSH TWA:

10 mg/m³

4 mg/m³

4 mg/m³

EU - Occupational Exposure (98/24/EC) - Not available

Binding Biological Limit Values And Health Surveillance Measures

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Not available

8.2. Exposure Controls

Appropriate Engineering Controls

Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment). It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Use only appropriately classified electrical equipment.

Appropriate Personal Protective Equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin Protection

Wear suitable gloves if prolonged skin contact is likely. Wear chemical-resistant footwear and protective clothing appropriate for risk of exposure.

Respiratory Protection

Use approved dust mask which conform to EN 149

Environmental Exposure Controls

Legislation for the protection of the environment must be met in full.

General Hygiene Considerations

When using do not smoke. 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

9.1. Information On Basic Physical And Chemical Properties

Appearance	Solid
Color	Golden yellow
Odor	Characteristic
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Water solubility	Not available
Solubility (other)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosion properties	Not available
Oxidising properties	Not available

9.2. Other Information

SECTION 10: Stability And Reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport
10.2. Chemical Stability	The product is stable under normal conditions.
10.3. Possibility Of Hazardous Reactions	No dangerous reaction known under conditions of normal use
10.4. Conditions To Avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.5. Incompatible Materials	Strong acids, strong bases, and oxidizing agents.
10.6. Hazardous Decomposition	Combustion can produce carbon monoxide and/or carbon dioxide

Products

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

No adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Acute And Chronic Toxicity

Immediate Effects	Not available
Delayed Effects	Not available
Irritation/Corrosivity Data	Particulates may scratch eye surfaces and cause mechanical irritation.
Respiratory Sensitization	Not available
Dermal Sensitization	Not available
Germ Cell Mutagenicity	Not available
Component Carcinogenicity	Not available
Reproductive Toxicity	Not available
Specific Target Organ Toxicity - Single Exposure	Not available
Specific Target Organ Toxicity - Repeated Exposure	Not available
Aspiration Hazard	Not available
Medical Conditions Aggravated By Exposure	Not available

SECTION 12: Ecological Information

12.1. Toxicity	Not available.
12.2. Persistence And Degradability	Expect to be biodegradable
12.3. Bioaccumulative Potential	Not available.
12.4. Mobility In Soil	Not available.
12.5. Results Of PBT And vPvB Assessment	Not available.
12.6. Other Adverse Effects	Not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Waste Disposal Methods:	Dispose of contents/container in accordance with local/regional/national/international regulations.
Component Waste Numbers:	Not available.
Contaminated Packaging:	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transportation Information

UN Model Regulations (ADR/RID, IMDG, IATA/ICAO): Not regulated as dangerous for transport.

14.1. UN Number	Not applicable
14.2. UN Proper Shipping Name	Not applicable
14.3. Transport Hazard Class(es)	Not applicable
14.4. Packing Group	Not applicable
14.5. Environmental Hazards	Not applicable
Marine Pollutant	Not applicable
14.6. Special Precautions For User	Not applicable
14.7. Transport In Bulk According To Annex II Of MARPOL73/78 And The IBC Code	This product is provided only in nonbulk containers.

SECTION 15: Regulatory Information

15.1. Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

According to Globally Harmonized System of Classification and Labelling of Chemicals and Regulation (EC) No 1272/2008 (CLP): Not classified
TSCA: Not regulated.

CERCLA Hazardous Substance List: Not listed.

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances: Not listed.

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 Hazardous chemical: Not regulated.

SARA 313 (TRI reporting): Not regulated.

Specific Provisions Not available

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

This document has been prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures, published in the 29204 numbered Official Gazette on 13.12.2014.

This document has been prepared by the certified author with certificate number IGU-135322.