

MATERIAL SAFETY DATA SHEET



WALNUT SHELLS

Drilling Fluids

1. Product and Company Identification

Material name	WALNUT SHELLS
Chemical name	Ground Cellulosic Material
Chemical description	Ground Walnut Shells
Applications	Lost Circulation Material
Supplier	Baker Hughes Drilling Fluids 2001 Rankin Rd. Houston, TX 77073 Emergency telephone number 713-439-8900

2. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

3. Hazards Identification

Emergency overview	Exposure to powder or dusts may be irritating to eyes, nose and throat.
Potential health effects	
Eyes	Dust or powder may irritate eye tissue.
Skin	Dust or powder may irritate the skin.
Inhalation	Inhalation of dusts may cause respiratory irritation.
Ingestion	Health injuries are not known or expected under normal use.

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact	Wash off skin with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.
General advice	Call a physician if symptoms develop or persist.

5. Fire Fighting Measures

Flammable properties	High concentration of airborne dust may form explosive mixture with air. Will burn if involved in a fire.
Hazardous combustion products	None known.
Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, or water spray.
Protection of firefighters	
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental Release Measures

Personal precautions	Do not touch or walk through spilled material. Avoid inhalation of dust from the spilled material.
Evacuation procedures	Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate surface water.
Methods for containment	Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Vacuum or sweep up material and place in a disposal container. Avoid dust formation.

7. Handling and Storage

Handling	Do not get this material in your eyes, on your skin, or on your clothing. Avoid dust formation. Wash hands after handling and before eating.
Storage	Keep tightly closed in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks, and flame.

8. Exposure Controls / Personal Protection

Exposure guidelines	Nuisance Particulates: OSHA PEL 15 mg/m ³ (total dust) - 8-hr. TWA 5 mg/m ³ (respirable dust) - 8-hr. TWA ACGIH TLV 10 mg/m ³ (inhalable) 8-hr TWA 3 mg/m ³ (respirable) 8-hr TWA
Engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Personal protective equipment	
Eye / face protection	Wear dust goggles.
Hand protection	Protective gloves.
Skin protection	Use of protective coveralls and long sleeves is recommended. Use of impervious boots is recommended.
Respiratory protection	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance / Color / Form	Powder. Tan. Solid.
Odor	Odourless.
Clarity	Not available
Odor threshold	Not available
Physical state	Solid
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	380 °F (193.3 °C)
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Relative density	1.5 g/cc
Solubility	Insoluble in water.
Octanol/H₂O coeff	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

10. Chemical Stability and Reativity Information

Conditions to avoid	Heat, flames and sparks. Dust may form explosive mixture in air.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Not available

12. Ecological Information

Not available

13. Disposal Considerations

Disposal instructions Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (CCS)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Korean Inventory of Chemicals (KICS)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

HMIS® ratings Health: 1
Flammability: 0
Physical hazard: 0
Personal protection: C

NFPA ratings Health: 1
Flammability: 0
Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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