



Material Safety Data Sheet

LIGNITE POWDER

Section 1 Chemical Product and Company Identification

Product	Lignite Powder
Application	Oil well drilling fluid additive. Dispersant
Supplier	Oren Hydrocarbons Middle East FZCO. PO Box 18159 Jebel Ali Free Zone (South) Dubai – U.A.E Tel: +97148860497 Fax: +97148860498

Section 2 Composition/Information on Ingredients:

Ingredient Name	CAS No.	Concentration
Silica, crystalline, quartz	14808-60-7	0-5%
Lignite	1415-93-6	95-100%

Section 3 Hazards Identification

Emergency Overview: Caution! May Cause eye, skin and respiratory tract irritation. Avoid contact with eyes, skin and clothing. Avoid breathing airborne product. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. This product is a black powder. May form explosive dust-air mixtures. Slippery when wet.

Acute Effects

Health Hazards, General: Particulates may cause mechanical irritation to the eyes, nose, throat and lungs. Particulate inhalation may lead to pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma. Dermatitis and asthma may result from short contact periods.

Inhalation: May be irritating to the respiratory tract if inhaled.

Ingestion: May cause gastric distress, nausea and vomiting if ingested.

Skin: May be irritating to the skin.

Eyes: May be irritating to the eyes.

CHRONIC EFFECTS:

CARCINOGENICITY:

IARC: Not listed. OSHA: Not regulated. NTP: Not listed.

ATTENTION! CANCER HAZARD. CONTAINS CRYSTALLINE SILICA WHICH CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure.

IARC Monographs, Vol. 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica in the form of quartz or cristobalite from occupational sources causes cancer in humans. IARC classification Group 1.

Route Of Entry: Inhalation. Skin and/or eye contact.

Target Organs: Respiratory system, lungs. Skin. Eyes.

Section 4 First Aid Measures

General : Persons seeking medical attention should carry a copy of this MSDS with them.



Inhalation: Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Ingestion: Drink a couple of glasses water or milk. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

Skin: Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eyes : Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for atleast 15 minutes. Get medical attention if any discomfort continues

Section 5 Fire Fighting Measures

Flash Point (?F): 309 Method: PM Closed cup.

Auto Ignition Temp. (?F): N/D

Flammability Limit - Lower(%): N/D

Flammability Limit - Upper (%): N/D

Extinguishing Media:

Carbon dioxide (CO₂). Dry chemicals. Foam. Water spray, fog or mist.

Special fire fighting procedures:

No specific firefighting procedure given.

Unusual Fire & Explosion Hazards:

Dust in high concentrations may form explosive mixtures with air.

Hazardous Combustion Products:

Irritating gases/vapors/fumes. Oxides of: Carbon.

Section 6 Accidental Release Measures

Personal Precaution in spill: Wear proper personal protective equipment (see MSDS section 8)

Spill cleanup methods: Avoid generating and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water. Do not contaminate drainage or waterways.

Section 7 Handling and Storage

Usage Precautions: Avoid handling causing generation of dust. Wear full protective clothing for prolonged exposure and/or high concentrations. Eye wash emergency shower must be available at the work place.

Wash hands often and change clothing when needed. Provide good ventilation. Mechanical ventilation or local exhaust ventilation is required

Storage Precautions: Store at moderate temperatures in dry, well ventilated area. Keep in original container.

Section 8 Exposure controls, personal protection

Ingredient Name	CAS No.	OSHA PEL:		ACGIH TLV:		OTHERS	
		TWA:	STEL:	TWA:	STEL:	TWA:	STEL UNITS
Silica, crystalline, quartz	14808-60-7	*		0.1			mg/m ³ resp. dust
Lignite	1415-93-6	*		2*			mg/m ³ resp. dust

Ingredient Comments: ** OSHA PELs for Mineral Dusts containing crystalline silica are 10 mg/m³ / (%SiO₂+2) for quartz and 1/2 the calculated quartz value for cristobalite and tridymite.

Protective Equipment :



Engineering Controls: Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to reduce air contamination and keep worker exposure below the applicable limits.

Ventilation: Supply natural or mechanical ventilation adequate to exhaust airborne product and keep exposures below the applicable limits.

Respirators: Use at least a NIOSH-approved N95 half-mask disposable or reusable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half mask disposable or reusable particulate respirator. For exposures exceeding 10x PEL use a NIOSH-approved N100 particulate respirator

Materials to avoid : N/D

Hazardous Polymerization: Will not polymerize

Protective Gloves: Use suitable protective gloves if risk of skin contact.

Eye Protection: Wear approved chemical safety goggles where eye exposure is reasonably probable. Use tight fitting goggles if dust is generated.

Hygienic Work Practices: Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination.

Section 9 Physical and Chemicals properties

Appearance: Powder dust.

Colour: Black

Odour: Earthy

Solubility description: Insoluble in water

Density /specific gravity (g/ml) 1.6 - 1.8 Temperature (°F) : 68

Bulk Density: 40 lb/ft³; 641 kg/m³

Vapor Density: (air=1): N/D

pH-Value, Diluted Sol. : 4.5 Conc.(%,M): 1%

Section 10 Stability and Reactivity

Stability: Normally stable

Conditions to avoid: Avoid Heat

Hazardous Polymerization: Will not polymerize

Polymerization Description: Not relevant

Materials to avoid: N/D

Hazardous decomposition products: No specific hazardous decomposition products noted.

Section 11 Toxicological Information

Toxicological Information: No toxicological data is available for this product.

Section 12 Ecological Information

Ecological Information: Nil

Section 13 Disposal Considerations



Waste Management: This product does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc, may render the resulting materials hazardous. Empty containers retain residues. All labeled precautions must be observed.

Disposal Methods: Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that containers are empty by RCRA criteria prior to disposal in a permitted industrial landfill.

Section 14 Transport Information

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Section 15 Regulatory Information

Regulatory status of ingredients

Name	CAS NO.	TSCA:	CERCLA:	SARA302:	SARA 313:	DSL(CAN)
Silica, crystalline, quartz	14808-60-7	Yes	No	No	No	Yes
Lignite	1415-93-6	Yes	No	No	No	Yes

US Federal Regulations:

Waste Classification: Not a hazardous waste by U.S RCRA criteria. See Section 13.

Regulatory status:

This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented.)

Section 16 Disclaimer

The statements, information and data provided in this MSDS are believed reliable and accurate by Oren Hydrocarbons Middle East FZCO. and its responsible personnel, however no other guarantee, representation, warranty or responsibility is expressed or implied to any user, regardless of reliance on all or any part thereof. This includes warranty of merchantability or of fitness for a particular purpose, and Oren Hydrocarbons Middle East FZCO. assumes no responsibility whatsoever for advice or recommendations made. Nothing contained herein should be interpreted as permission inducement.