

# Material Safety Data Sheet

## Lignite

### I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lignite  
 Chemical Name: LEONARDITE  
 Chemical Family: HUMIC ACID  
 Synonyms: LIGNITE, SUPERLIG, LEONARDITE

Revised: 7/2010  
 CAS#: 1415-93-6

NFPA Properties: Health: 1 Flammability: 1 Reactivity: 1 Contact: 1

#### Supplier:

**NOV FluidControl**  
 4310 N. Sam Houston Parkway E  
 Houston, TX 77032  
 Office: (713) 482-0500  
 Fax: (713) 482-0695  
 Company website: [www.nov.com](http://www.nov.com)

#### Emergency Telephone Number:

**CHEMTREC: 1-800-424-9300 or International +1-703-527-3887**

### II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	TLV's (ACGIH)				CAS#	LIMITS	OTHER %
	TWAPPM	TWA MG/M <sup>3</sup>	STEL PPM	STEL MG/M <sup>3</sup>			
1. None							

### III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point °F: N/A	Color: DARK BROWN
Specific Gravity: 1.5	Odor: NEAR ODORLESS
Vapor Pressure: N/A	Appearance: POWDER
Percent Volatility: N/A	pH: N/A
Vapor Density: N/A	Viscosity: NDA
Evaporation Rate: N/A	Activity: N/A
Solubility In Water: NEGLIGIBLE (<1%)	LC50: NDA
Melting Point °F: N/A	LD50: NDA

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### IV. FIRE & EXPLOSION HAZARD DATA

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**Extinguishing Agents:** DRY CHEMICAL OR WATERSPRAY OR WATERFOG OR CO2 OR FOAM OR SAND & EARTH

**Flash Point °F:** >400F

**Flammable Limits:** LEL: N/A UEL: N/A

**Special Firefighting Procedures:** USE WATER TO KEEP CONTAINERS COOL

**Unusual Fire & Explosion Hazards:** PRODUCTS OF COMBUSTION MAY CONTAIN CARBON MONOXIDE, CARBON DIOXIDE AND OTHER TOXIC MATERIALS. DO NOT ENTER ENCLOSED OR CONFINED SPACE WITHOUT PROPER PERSONAL PROTECTIVE EQUIPMENT.

**Toxic Gases Produced:** CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER TOXIC GASES.

### V. HEALTH HAZARD DATA

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**Routes of Entry:** Inhalation: YES Skin: YES Ingestion: YES

**Effects of Overexposure:** NONE

**Toxicological Properties:** NDA

**Chronic & Acute Effects of Overexposure:** NONE

**Carcinogenicity:** NTP: NO IARC Monographs: NO OSHA Regulated: NO

#### Emergency First Aid Procedures

**Eyes:** IMMEDIATELY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND CALL A PHYSICIAN.

**Skin Contact:** FLUSH WITH LARGE AMOUNTS OF SOAP & WATER FOR 15 MINUTES.

**Inhalation:** REMOVE TO FRESH AIR, IF BREATHING IS DIFFICULT, GIVE OXYGEN AND CALL A PHYSICIAN.

**Ingestion:** RINSE MOUTH, GIVE LARGE AMOUNTS OF WATER, AND CALL A PHYSICIAN. NEVER GIVE ANYTHING MOUTH-TO-MOUTH TO AN UNCONSCIOUS PERSON. MAY CAUSE NAUSEA, VOMITING AND IRRITATION OF THE INGESTIONAL TRACT.

N/A = Not Applicable NDA = No Data Available

### VI. REACTIVITY DATA

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**Stability:** STABLE Hazardous Polymerization: WILL NOT OCCUR

**Hazardous Decomposition Products:** THERMAL DECOMPOSITION MAY INCLUDE, CARBON MONOXIDE, CARBON DIOXIDE, SMOKE, FUMES

**Conditions to Avoid:** HEAT, SPARKS, IGNITION SOURCES

**Incompatibility and Materials to Avoid:** NONE

### VII. SPILL & DISPOSAL PROCEDURES

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**Steps To Be Taken in Case Material is Released or Spilled --- Procedures For Clean – Up:** WASH AREA WITH WATER. SPILLS OR RELEASES OF THIS MATERIAL DO NOT CURRENTLY TRIGGER THE EMERGENCY RELEASE REPORTING REQUIREMENTS UNDER THE FEDERAL SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA). STATE AND LOCAL LAWS MAY DIFFER FROM FEDERAL LAW. CONSULT COUNSEL FOR FURTHER GUIDANCE ON YOUR RESPONSIBILITIES UNDER THESE LAWS.

**Waste Disposal Method:** DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

**Precautions to Be Taken In Handling & Storage:** NONE

**Lignite****Material Safety Data Sheet****VIII. PROTECTIVE EQUIPMENT**

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**Ventilation Type Required:** MECHANICAL

**Protective Gloves:** RUBBER, RECOMMENDED

**Respiratory Protection:** WEAR A NIOSH APPROVED MASK IF CONCENTRATION IS TO EXCEED TLV

**Other Protective Equipment:** USE EXPLOSION PROOF EQUIPMENT FOR HIGH CONCENTRATIONS OF VAPOR.

**Comments:**

**IX. REGULATORY & TRANSPORTATION INFORMATION**

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US DOT Proper Shipping Name: "OIL – WELL TREATING COMPOUND"

US DOT Hazard Class: DOT ID Number:

ID Number: Freight Classification:

Unregulated By DOT: Regulated by DOT: NO

Special Transportation Note:

Labels Required:

**DISCLAIMER:**

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