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## I. MANUFACTURER'S INFORMATION:

Manufacturer:	BAKER HUGHES INTEQ	HMIS Hazard	Health	0	Minimal	0
Product Name:	MILPLUG (ALL GRADES)	Rating and Key	Flammability	2	Slight	1
Chemical Name:	GROUND CELLULOSIC MATERIAL		Reactivity	0	Moderate	2
Chemical Description:	GROUND PECAN SHELLS		Personal Protection	E	Serious	3
					Severe	4

Proper Shipping Description: DRILLING FLUID COMPOUND, N.O.S.

Hazard Class: NOT HAZARDOUS PER DOT UN Number: NA

Hazard Label: NA

DOT Response Guide: NA

Transportation Note: NA

## II. HAZARD IDENTIFICATION:

<b>Hazardous Components:</b>	<b>ACGIH TLV:</b>	<b>OSHA PEL:</b>	<b>%</b>	<b>CAS Number:</b>	<b>Product RQ:</b>
GROUND PECAN SHELLS, AS PARTICULATES NOT OTHERWISE CLASSIFIED.	10 MG/M3 T	15 MG/M3 T	100	NA	NA

### Hazards Associated with Product Use

	Yes		Yes		Yes		Yes
Combustible Liquid		Flammable Material		Pyrophoric Material		Explosive Material	
Unstable Material		Water Reactive Material		Oxidizer		Organic Peroxide	
Corrosive Material		Compressed Gas		Irritant		Nuisance Particulate	X
Skin Hazard		Eye Hazard	X	Toxic Agent		Highly Toxic Agent	
Sensitizer		Carcinogen		Reproductive Toxin		Blood Toxin	
Nervous System Toxin		Lung Toxin		Liver Toxin		Kidney Toxin	

### Community Right-to-Know (SARA Title III Section 311-312)

Fire: Sudden Release Of Pressure: Reactivity: Immediate (Acute): X Delayed (Chronic):

## III. PHYSICAL DATA:

Boiling Point (F):	NA	Vapor Pressure (mmHg):	NA	pH:	NEUTRAL
Melting Point(F):	NA	Vapor Density (Air=1):	NA	Specific Gravity:	1.2
Freezing Point(F):	NA	Solubility In Water:	INSOLUBLE	Percent Volatile By Volume (%):	NA
Odor Threshold:	NONE	Appearance And Odor:	BROWN, ODORLESS	Evaporation Rate (____=1):	NA
Material Is:	PURE POWDER	Coefficient of Water/Oil Distribution:	INSOLUBLE IN WATER		

## IV. FIRE & EXPLOSION HAZARD DATA:

Flashpoint (F):	NA	Auto Ignition Temperature (F):	470	Explosive Limit - Lower:	NA	Upper:	NA
Extinguishing Media:	Water: X	CO2:	X	Dry Chemical:	X	Foam:	X
				Fog:	X		

Hazardous Combustion Products:

UPON COMBUSTION, OXIDES OF CARBON, MAY FORM PRODUCING TOXIC AND ACRID FUMES.

Fire Fighting Procedures:

IN CASE OF FIRE, GENTLY FLOOD WITH WATER FOG, USING CARE NOT TO SUSPEND DUSTS.

Unusual Fire and Explosion Hazards:

AT VERY HIGH DUST CONDITIONS, PRODUCT MAY FORM EXPLOSIVE DUST-AIR MIXTURES.

## V. REACTIVITY DATA:

Chemically Stable: Yes: X No: If no, Under Which Conditions? VERY DUSTY CONDITIONS.

Incompatibility (Materials to Avoid): AVOID STRONG OXIDIZERS.

Hazardous Decomposition on Byproducts: PRODUCT WILL NOT READILY DECOMPOSE.

Hazardous Polymerization May Occur: Will Not Occur: X Conditions to Avoid: NA

ND - Not Determined

NA - Not Applicable

T - Total Dust

R - Respirable Fraction

C - Ceiling Limit

**VI. HEALTH HAZARD INFORMATION:**

Primary Exposure Route:	Skin Contact:	Skin Absorption:	Eye Contact:	X	Inhalation:	X	Ingestion:
Product Carcinogenicity -	NTP: NO	IARC: NO					

## Acute Effects of Overexposure:

PRODUCT DUST MAY CAUSE MECHANICAL IRRITATION TO EYES, SKIN AND UPPER RESPIRATORY SYSTEM. INHALATION MAY CAUSE SHORTNESS OF BREATH, COUGH OR CHEST TIGHTNESS.

## Chronic Effects of Overexposure:

SOME PARTICULATE DUSTS MAY CAUSE ALLERGIC SENSITIZATION OF SOME INDIVIDUALS, CHARACTERIZED EITHER BY BREATHING DISTRESS OR TOPICAL SKIN IRRITATION SYMPTOMS.

**VII. EMERGENCY AND FIRST AID INSTRUCTIONS:**

Eyes:	FLUSH WITH WATER FOR 15 MINUTES. CONTACT A PHYSICIAN IF IRRITATION PERSISTS.
Skin:	WASH THOROUGHLY WITH SOAP AND WATER. APPLY MEDICATED CREAMS TO RELIEVE IRRITATION AND REPLENISH SKIN OILS.
Ingestion:	GIVE FLUIDS TO RINSE MOUTH AND THROAT AND TO DILUTE. CONSULT A PHYSICIAN IF ADVERSE SYMPTOMS DEVELOP.
Inhalation:	REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

**VIII. ENVIRONMENTAL PROTECTION PROCEDURES:**

## Spill Response:

WEAR PROPER PROTECTIVE EQUIPMENT (SECTION IX). ELIMINATE IGNITION SOURCES IN DUSTY CONDITIONS. RECOVER SPILLED MATERIAL TO THE ORIGINAL CONTAINER FOR SALE IF POSSIBLE OR TO A SUITABLE WASTE CONTAINER. MINIMIZE DUSTING DURING CLEANUP. FLUSH RESIDUE.

## Waste Disposal Method:

PRODUCT IS NOT HAZARDOUS ACCORDING TO RCRA CRITERIA OR LISTING SUPPLIED. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS DEALING WITH NONHAZARDOUS WASTE PRODUCT.

## Handling:

CAUTION! MAY CAUSE MECHANICAL EYE, SKIN AND RESPIRATORY IRRITATION. AVOID CONTACT AND WEAR PROTECTIVE EQUIPMENT. AVOID BREATHING DUST.

## Storage:

KEEP DUST TO A MINIMUM. KEEP CONTAINER CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. DISCARD EMPTY CONTAINERS.

**IX. OCCUPATIONAL CONTROL MEASURES:**

Respiratory Protection:	WEAR A NIOSH/MSHA APPROVED PARTICULATE RESPIRATOR IF EXPOSURE LIMITS ARE EXCEEDED OR FOR COMFORT.
Ventilation:	SUPPLY MECHANICAL VENTILATION NEEDED TO MAINTAIN SAFE EXPOSURES TO NUISANCE PARTICIPATES (15 MG/M3).
Clothing:	WEAR LONG SLEEVE CLOTHING OR APRON
Eyewear:	WEAR CHEMICAL SAFETY GOGGLES OR GLASSES WITH SIDEGUARDS. INSURE PROPER FIT.
Gloves:	WEAR GLOVES TO PREVENT CHEMICAL IRRITATION.
Footwear:	USE NORMAL SAFETY BOOTS.

**X. ADDITIONAL INFORMATION:**

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Prepared By: Jim Rushing

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ND - Not Determined

NA - Not Applicable

&gt; - Greater Than

&lt; - Less Than

C- Ceiling Limit