

# SAFETY DATA SHEET

## SPX MUD MAGIC



HMIS III:

HEALTH	1
FLAMMABILITY	2
PHYSICAL	0

0=Insignificant, 1=Slight, 2=Moderate, 3=High, 4=Extreme

### SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: SPX MUD MAGIC

SYNONYMS: Drilling fluid, LFD+, No.2 Off-road diesel, Red-dyed fuel, Low Sulfur Diesel fuel, LSD, <500ppm diesel

PRODUCT USE: Fuel Oil for use in drilling applications

MANUFACTURER / SUPPLIER: Pilot Thomas Logistics  
201 North Rupert Street  
Fort Worth, TX 76107  
844-785-8326  
www.pilotthomas.com

**24 Hour Emergency Phone Number** PERS: 1-800-633-8253  
CUSTOMER #1898

SDS FORM NUMBER: 100023

ISSUE DATE: 8 June 2014

REVISION DATE: 2 January 2015

PREPARED BY: SDS Coordinator

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## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-NO.	WEIGHT %
Fuels, diesel, No.2; Gasoil; Used oil	68476-34-6	100%
Nonane	111-84-2	0 - 3%
Naphthalene	91-20-3	0 - 1%
1,2,4-Trimethylbenzene	95-63-6	0 - 1%
Xylene	1330-20-7	0 - 1%
Sulfur	7704-34-9	500ppm max.

## SECTION 3: HAZARDOUS IDENTIFICATION

### EMERGENCY OVERVIEW

APPEARANCE: Liquid, amber colored (red, if dyed), petroleum odor.

HAZARDS SUMMARY: Toxic. Combustible liquid

ENVIRONMENTAL HAZARD: Product may be toxic to fish, plants, wildlife and/or domestic animals. See SECTION 12.

### POTENTIAL HEALTH EFFECTS

EYES: Eye irritation may occur from contact with liquid or vapor.

INHALATION: Vapor from this material may cause irritation in nose, throat and lungs and may cause symptoms of central nervous system depression.

SKIN: Skin irritation leading to dermatitis may occur upon prolonged or repeated contact. Liquid may be absorbed through skin in toxic amounts if subjected to prolonged exposure. Long-term, repeated contact may cause skin cancer.

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## POTENTIAL HEALTH EFFECTS (CONTINUED)

- INGESTION:** Harmful or fatal if swallowed. Do NOT induce vomiting. This material can irritate the mouth, throat, stomach and cause nausea, vomiting, diarrhea and restlessness. Aspiration hazard if liquid is inhaled into lungs, particularly if vomiting after ingestion. Aspiration may result in chemical pneumonia, sever lung damage, respiratory failure and even death.
- CHRONIC:** Prolonged or repeated inhalation may cause oil pneumonia, lung tissue inflammation and fibrous tissue formation. See INHALATION. Prolonged or repeated eye contact may cause inflammation of eyelid and eyeball membrane (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching and swelling (dermatitis).

## SECTION 4: FIRST AID MEASURES

- EYES:** Remove contact lenses. Rinse with warm water for at least 15 minutes. Seek medical attention if symptoms persist.
- INHALATION:** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Seek medical attention immediately.
- SKIN:** Remove contaminated clothing immediately. Wash thoroughly with warm water and soap. Seek medical attention if symptoms persist.
- INGESTION:** Do NOT induce vomiting. If vomiting occurs, keep head below hips to prevent inhalation into lungs. Seek medical attention immediately.
- NOTES TO PHYSICIAN:** Symptoms: Dizziness, Discomfort, Headache, Nausea, Disorder, Vomiting, Lung Edema, Aspiration, Liver Disorders, Kidney Disorders.

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## SECTION 5: FIRE FIGHTING MEASURES

FORM:	Liquid
FLASH POINT:	> 52° C
AUTO IGNITION TEMPERATURE:	> 110° C
EXTINGUISHING MEDIA:	Carbon Dioxide (CO <sub>2</sub> ), Water Spray, Dry Chemical, Foam, Water, Fog. Keep containers and surroundings cool with water spray.
CONDITIONS OF FLAMMABILITY:	Heat, sparks or flame.
FIRE FIGHTING INSTRUCTIONS:	Keep storage containers with water spray. Do NOT use solid water stream as it may scatter and spread fire. Heated containers may rupture. Wear self-contained breathing apparatus (SCBA) and full-body protective equipment.
ADDITIONAL INFORMATION:	Decomposition and combustion material may be toxic. Burning may produce nitrogen oxides, carbon monoxide and other organic compounds. Isolate area around fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Remove all ignition sources. Evacuate nonessential personnel. Do not touch or walk through spilled product. Stop leak, if you can do it without risk. Evaluate direction of product travel to best contain. Spills may infiltrate soil and groundwater. Use personal protective equipment. Ensure adequate ventilation.
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## **ACCIDENTAL RELEASE MEASURES (CONTINUED)**

### ENVIRONMENTAL PRECAUTIONS:

Carefully contain and stop the source of the spill, if safe to do so. Use dikes, absorbents or other mechanical strategies to protect bodies of water, sewers and drains. Water spray may be used to disperse product vapors or the liquid itself. Prevent contact with ignition sources. Discharge into the environment must be avoided. If product contaminates water sources, sewers or drains, contact appropriate authority.

### METHODS FOR CLEANING:

Contain spill as liquid for possible recovery or sorb with sand or oil absorbing material. Carefully shovel with sparkproof tool into appropriate waste container for reclamation or disposal. Clean-up crews must be trained and use proper protective equipment.

## SECTION 7: HANDLING & STORAGE

### HANDLING:

Keep away from heat, sparks or flame. Do not smoke near areas where product is stored or handled. Use clean, sparkproof tools. Storage tanks, tanker trucks, rail tank cars should be grounded and in good repair. Do not breathe vapors. Avoid contact with skin, eyes, clothing and shoes.

### SHIPPING & STORAGE

Use only approved containers. Containers should be clearly labeled and closed when not in use. Empty or partially full vessels may contain explosive vapors. Keep containers away from heat, sparks or flame. Do not pressurize, cut, weld, solder, braze, drill, grind or expose containers to sources of ignition. Store in a well ventilated area.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Allow adequate ventilation to keep gas and vapor concentrations below occupational exposure and flammability limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYE PROTECTION:** Safety glasses or goggles recommended if there is a possibility of splashing or spraying. Contact lenses may be worn with eye protection.

**SKIN PROTECTION:** Gloves or suits of nitrile, neoprene or PVC are recommended if prolonged contact is expected. Natural rubber gloves are not recommended.

**RESPIRATORY PROTECTION:** Approved air-purifying respirator with organic vapor cartridges/canisters may be permissible under conditions where airborne concentrations exceed limitations for odor or irritation. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992 and/or manufacturer for respirator selection guidance.

**PERSONAL HYGIENE:** Wash thoroughly with soap and water after handling product and before eating, drinking, smoking or using bathroom facilities. Do not use as a cleaning solvent on the skin. Remove and launder contaminated clothing before reuse. Discard apparel items that can not be cleaned. Discard leather shoes, boots or gloves that become saturated with product.

**OTHER EQUIPMENT:** Emergency eyewash facilities should be available in proximity to any potential splash exposure. Emergency shower may be appropriate in some cases.

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## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

FORM:	Liquid
APPEARANCE:	Amber. Red when dyed as untaxed fuel.
ODOR:	Characteristic petroleum odor
FLASH POINT (TYPICAL):	65-85 °C
AUTO IGNITION TEMPERATURE:	250 °C
DENSITY:	6.3 to 8.3 lbs/gallon (.80 g/cm <sup>3</sup> to 1.0 g/cm <sup>3</sup> )
BOILING POINT:	140 °C to 380 °C
FREEZING POINT:	Not available
pH:	Not applicable
WATER SOLUBILITY:	Negligible
VAPOR PRESSURE:	Not available
VAPOR DENSITY:	Greater than 1 (air = 1) (based on kerosene)
SPECIFIC GRAVITY:	0.80 - 0.90
VISCOSITY:	5.0 - 32 cSt at 40 °C

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## SECTION 10: STABILITY & REACTIVITY

STABILITY:	Product is stable under normal temperatures and pressures. Avoid heat, spark or flame.
INCOMPATIBILITY:	Avoid acids, alkalis, oxidizing agents, peroxides, reducing agents, reactive halogens or reactive metals.
REACTIVITY:	Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide and noncombusted hydrocarbons (smoke). Fuel exhaust may be a lung hazard. See SECTION 11.

## SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION:	May be known human sensitization with this product.
MUTAGENICITY:	May be known human mutagenicity with this product.
CARCINOGENICITY:	Treated mineral oils are listed by IARC as a known carcinogen. Treated mineral oils are classified by NTP as having limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.  There may be hydrocarbon and chlorinated solvents; metals, and polynuclear aromatics present which are known, probable or possible carcinogens per OSHA, IARC, NTP or ACGIH.
REPRODUCTIVE TOXICITY:	May be known reproductive toxicity with this product.
TERATOGENICITY:	May be known human teratogenicity with this product.
TOXICOLOGICAL SYNERGIES:	May be toxicological synergies with this product.

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## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Keep out of sewers, drains and waterways. Report spills or releases, as applicable, under federal, state, county and city regulations.
OCTANOL/WATER PARTITION COEFFICIENT:	Not available
VOLATILE ORGANIC COMPOUNDS:	Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL	Dispose in accordance with federal, state, county and city regulations.
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## SECTION 14: TRANSPORT INFORMATION

DOT / TDG / IATA CARGO / IATA PASSENGER / IMDG	Proper Shipping Name:	Diesel fuel
	Class:	3
	Packing Group:	III
	UN-No.:	UN 1202 (NA 1993)
	ICAO-Lables:	3
	Packing (Cargo Aircraft):	309
	Packing (Pass. Aircraft):	Y309
	IMDG-Lables:	3
	EmS Number:	F-E S-E
	Marine Pollutant:	No

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## SECTION 15: REGULATORY INFORMATION

OSHA HAZARDS:	Combustible Liquid Moderate Skin Irritant Moderate Eye Irritant Toxic by Ingestion Possible Cancer Hazard
SARA 302 AND 304	Based on ingredients in SECTION 2, this product does not contain any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or 304 as identified in 40 CFR Part 355, Appendix A and B.
SARA 311 AND 312	This product poses the following physical and health hazards listed pursuant to the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 311 or 312: Fire Hazard Acute Health Hazard Chronic Health Hazard
CERCLA:	This product may contain “hazardous substances” listed pursuant to Comprehensive Environmental Response, Compensation & Liability Act of 1980.
TSCA:	Not available

## SECTION 16: OTHER INFORMATION

OTHER INFORMATION:	Information provided in this safety data sheet is correct to the best of our knowledge, information and belief as of the date of publication.
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END OF REPORT

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