MATERIAL SAFETY DATA SHEET
SX-PLUS® FINE

SUN DRILLING PRODUCTS CORP.
503 Main Street
Belle Chasse, LA 70037
(504) 393-2778
USA

HMIS HEALTH……..……..…1
HMIS FLAMMABILITY…….0
HMIS REACTIVITY……0
PERSONAL PROTECTION..….B

EMERGENCY NUMBER…….. 800-962-6490

SECTION 1 – IDENTIFICATION OF CHEMICAL PRODUCT

PRODUCT NAME:	**SX-PLUS® FINE**
EFFECTIVE DATE:	**March 17, 2008**
CHEMICAL FAMILY:	**Drilling Fluid Additive (Granular Graphite)**
FORMULA:	**Proprietary**
CAS NUMBER:	**Blend**

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
This product is not considered Hazardous as per 29CFR 1910:1200.	-	-	None Established

The criteria for listing components in the composition are as follows: Carcinogens are listed when present at 0.1% or greater; components which are other wise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if no proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right to know and other regulatory information.

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE/ODOR:……. Dark Bead Like Granules/Odorless

SHORT TERM EXPOSURE……..GENERAL: No significant adverse health effects are expected to develop with normal use. **EYES:** Slight to moderate irritant. **SKIN:** Persons with pre-existing skin disorders may experience slight irritation. **INHALATION:** no adverse effects with normal use. **INGESTION:** No significant adverse health effects are effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

OSHA REGULATED:…… No

LISTED CARCINOGEN:…….. NTA: No

IARC MONOGRAPHS: No

POTENTIAL HEALTH EFFECTS

INHALATION:…… Irritant

INGESTION:……... Irritant

SKIN (DERMAL):……... Irritant

OVER EXPOSURE EFFECTS:……..... No evidence of adverse effects from available information.

SECTION 4 – FIRST AID MEASURES

FIRST AID:…… In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapor or spray mist, remove to fresh air. If swallowed, do not induce vomiting get immediate medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLASHPOINT:…… > 350° F (>177°C)
EXTINGUISHING MEDIA:…….
DECOMPOSITION PRODUCTS:……
LOWER FLAME LIMIT:…… NA
HIGHER FLAME LIMIT:……... NA
UNUSUAL FIRE AND EXPLOSION HAZARDS:……... None Known
FIRE FIGHTING EQUIPMENT:…… Fire Fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CHEMICAL EMERGENCY NUMBER (24 HOURS):…… 1-800-960-6490
SPILL:…….. In case of spillage, dilute with water to sewer if allowed by local regulations, or absorb with inert material and dispose of in accordance with applicable regulations.
RCRA STATUS:……. None

SECTION 7 – HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND PROMPT REMOVAL OF MATERIAL FROM EYES, SKIN AND CLOTHING.

HANDLING AND STORAGE:…….. No special storage requirements.
PRECAUTIONARY MEASURES: Provide fresh air ventilation during and after application. Close container after each use. Avoid prolonged or repeated contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking or smoking. If needed, take first aid action shown in Section 4.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting protective equipment.

EYE PROTECTION:…… Use goggles or face shield id splashing is likely.
RESPIRATORY PROTECTION:…… Not normally needed. Use NIOSH approved vapor respirator if exposure is unknown or exceeds permissible limits.

Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134

PROTECTIVE GLOVES:…….. Wear impervious gloves
VENTILATION:……. Local exhaust
MECHANICAL EXHAUST:……. Desired in closed places
LOCAL EXHAUST:……... Recommended

VENTILATION NOTES: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

THRESHOLD LIMIT VALUE:…… None Established for this Product.
PROTECTIVE EQUIPMENT: HMIS PERSONAL PROTECTION: B: Safety Glasses, Gloves
The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR:……..……. Dark bead like granules, odorless
BOILING POINT:…… IBP 284°F (140° C)
FREEZING POINT:…….. N/D
VAPOR PRESSURE:…… (mm Hg) N/D
VAPOR DENSITY (AIR = 1):……. (AIR –1) >1
SPECIFIC GRAVITY:……. 1.50 (60# per cubic foot)
pH:…… N/A
SOLUBILITY IN WATER:……..……. N/L

SECTION 10 – STABILITY AND REACTIVITY

STABILITY:……. Stable
HAZARDOUS POLYMERIZATION:...……. Will Not Occur
POLYMERIZATION AVOID:…… None
INCOMPATIBILITY:……. Avoid strong acids and bases.
CONDITIONS TO AVOID:……. None known

SECTION 11 – TOXICOLOGICAL INFORMATION

EYE EFFECTS:
The eye irritation hazard is based on data from information supplied by raw material(s) supplier(s).
SKIN EFFECTS:
The skin irritation hazard is based on data from information supplied by raw material(s) supplier(s).
ACUTE ORAL EFFECTS:
The acute oral toxicity is based on data from information supplied by raw material(s) supplier(s).
ACUTE INHALATION EFFECTS:
The acute respiratory toxicity is based on data from information supplied by raw material(s) supplier(s).

SECTION 12 – ECOLOGICAL INFORMATION

Data from laboratory studies and from scientific literature is noted below if available.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:……..…… Follow State Regulations.

SECTION 14 – TRANSPORTATION INFORMATION

The data provided in this section if for information only. The description shown may not apply to all shipping situations. Consult 49 CFR, or appropriate regulations to properly classify your shipment for transportation.

PROPER SHIPPING NAME:……...…DOT NON-REGULATED – SX-PLUS® FINE
REPORTABLE QUANTITY:……..… None
HAZARD CLASS AND LABEL:…… None
UN NUMBER:……
NA NUMBER:……None
PACKAGING SIZE:…… 50# Bag

SECTION 15 – REGULATORY INFORMATION

SARA 311 CATEGORIES:
EPA ACUTE:…… Yes (Eyes)
EPA CHRONIC:…… No
EPA IGNITABILITY:…….. No
EPA REACTIVITY:…… No
EPA SUDDEN RELEASE OF PRESSURE:…….. No
CERCLA RQ VALUE:…… None
SARA TPQ:……... None

SARA RQ:……. None
EPA HAZARD WASTE#:……... None
CLEAN AIR:……. NA
CLEAN WATER:……. NA
SARA SECTION 313:…….. No
NFPA HEALTH:…….. 1
NFPA FLAMMABILITY:…….….. 0
NFPA REACTIVITY:…….. 0
DEA Chemical Trafficking Act:……..
TSCA STATUS:……. All ingredients in this product are on the TSCA Inventory List.

SECTION 16 – ADDITIONAL INFORMATION

FOOT NOTES: N/A =NOT APPLICABLE **ND = NO DATA AVAILABLE**
> = GREATER THAN **< = LESS THAN**

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Company Health and Risk Assessment Unit, PO Box 1519, Gretna, La 70054-1519

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

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