



# MATERIAL SAFETY DATA SHEET

Review Date: 11/28/2006

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT: DIALA® HFX**

**MSDS NUMBER:** 400800E - 2

**PRODUCT CODE(S):** 6972900001

### MANUFACTURER

SOPUS Products  
P.O. Box 4427  
Houston, TX. 77210-4427

### TELEPHONE NUMBERS

**Spill Information:** (877) 242-7400  
**Health Information:** (877) 504-9351  
**MSDS Assistance Number:** (877) 276-7285

## SECTION 2 PRODUCT/INGREDIENTS

INGREDIENTS	CAS#	CONCENTRATION
Dielectric Fluid		
Highly refined petroleum distillates	Blend	95 - 99.9 %volume
Butylated Hydroxy Toluene (Inhibitor)	128-37-0	> 1 %volume

## SECTION 3 HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
**Appearance & Odor:** White liquid. Slight hydrocarbon odor.  
**Health Hazards:** No known immediate health hazards.  
**Physical Hazards:** No known physical hazards.  
**NFPA Rating (Health, Fire, Reactivity):** 0, 1, 0  
**Hazard Rating:** Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

### Inhalation:

Inhalation of vapors (generated at high temperatures only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.

### Eye Irritation:

Lubricating oils are generally considered no more than minimally irritating to the eyes.

### Skin Contact:

May cause slight irritation of the skin. If irritation occurs, a temporary burning sensation and minor redness and/or swelling may result. Other adverse effects not expected from brief skin contact.

### Ingestion:

Lubricating oils are generally no more than slightly toxic if swallowed.

**Signs and Symptoms:**

Irritation as noted above.

**Aggravated Medical Conditions:**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

For additional health information, refer to section 11.

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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**Inhalation:**

If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

**Skin:**

Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye:**

Flush with water. If irritation occurs, get medical attention.

**Ingestion:**

DO NOT induce vomiting. In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Note to Physician:**

In general, emesis induction is unnecessary in high viscosity, low volatility products such as oils and greases.

<b>SECTION 5</b>	<b>FIRE FIGHTING MEASURES</b>
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**Flash Point [Method]:** 545 °F/285 °C [Cleveland Open Cup]

**Extinguishing Media:**

Material will float and can be re-ignited on surface of water. Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use a direct stream of water.

**Fire Fighting Instructions:**

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. This material is non-flammable.

**Unusual Fire Hazards:**

Material may ignite when preheated.

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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**Protective Measures:**

May burn although not readily ignitable.

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.

**Spill Management:**

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

**Reporting:**

CERCLA: Product is covered by EPA's Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA (Superfund).

CWA: This product is an oil as defined under Section 311 of EPA's Clean Water Act (CWA). Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 1-800-424-8802.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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**Precautionary Measures:**

Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking.

**Storage:**

Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

**Container Warnings:**

Keep containers closed when not in use. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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Chemical	Limit	TWA	STEL	Ceiling	Notation
Oil mist, mineral	ACGIH TLV	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		
Oil mist, mineral	OSHA PEL	5 mg/m <sup>3</sup>			

<b>Exposure Controls</b>
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Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

<b>Personal Protection</b>
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Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

**Eye Protection:**

Chemical Goggles, or Safety glasses with side shields

**Skin Protection:**

Use protective clothing which is chemically resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

Published literature, test data and/or glove and clothing manufacturers indicate the best protection is provided by:  
Neoprene, or Nitrile Rubber

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Types of respirator(s) to be considered in the selection process include:

For Mist: Air Purifying, R or P style NIOSH approved respirator.

For Vapors: Air Purifying, R or P style prefilter & organic cartridge, NIOSH approved respirator. Self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Appearance & Odor:** White liquid. Slight hydrocarbon odor.

**Substance Chemical Family:** Lubricants

<b>Dielectric Strength</b>	30	<b>Flash Point</b>	545 °F [Cleveland Open Cup]
<b>Pour Point</b>	-40 °F	<b>Solubility (in Water)</b>	Negligible
<b>Specific Gravity</b>	0.87	<b>Viscosity</b>	100 cSt - 110 cSt @ 40 °C

<b>SECTION 10</b>	<b>REACTIVITY AND STABILITY</b>
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**Stability:**

Material is stable under normal conditions.

**Conditions to Avoid:**

Avoid heat and open flames.

**Materials to Avoid:**

Avoid contact with strong oxidizing agents.

**Hazardous Decomposition Products:**

Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Carbon Monoxide, Carbon Dioxide and other unidentified organic compounds may be formed upon combustion.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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### Acute Toxicity

TEST	Result	OSHA Classification	Material Tested
Dermal LD50	> 2 g/kg(Rabbit)	Non-Toxic	Based on components(s)
Oral LD50	> 5 g/kg(Rat)	Non-Toxic	Based on components(s)

### Carcinogenicity Classification

Chemical Name	NTP	IARC	ACGIH	OSHA
Dielectric Fluid	No	No	No	No

## SECTION 12 ECOLOGICAL INFORMATION

### Environmental Impact Summary:

There is no ecological data available for this product. However, this product is an oil. It is persistent and does not readily biodegrade. However, it does not bioaccumulate.

## SECTION 13 DISPOSAL CONSIDERATIONS

### RCRA Information:

Under RCRA, it is the responsibility of the user of the material to determine, at the time of the disposal, whether the material meets RCRA criteria for hazardous waste. This is because material uses, transformations, mixtures, processes, etc. may affect the classification. Refer to the latest EPA, state and local regulations regarding proper disposal.

## SECTION 14 TRANSPORT INFORMATION

### US Department of Transportation Classification

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

**Oil:** This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

### International Air Transport Association

Not regulated under IATA rules.

### International Maritime Organization Classification

Not regulated under International Maritime Organization rules.

## SECTION 15 REGULATORY INFORMATION

### Federal Regulatory Status

### OSHA Classification:

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Ozone Depleting Substances (40 CFR 82 Clean Air Act):**

This material does not contain nor was it directly manufactured with any Class I or Class II ozone depleting substances.

**Superfund Amendment & Reauthorization Act (SARA) Title III:**

There are no components in this product on the SARA 302 list.

**SARA Hazard Categories (311/312):**

Immediate Health	Delayed Health	Fire	Pressure	Reactivity
NO	NO	NO	NO	NO

**SARA Toxic Release Inventory (TRI) (313):**

There are no components in this product on the SARA 313 list.

**Toxic Substances Control Act (TSCA) Status:**

All component(s) of this material is(are) listed on the EPA/TSCA Inventory of Chemical Substances.

**Other Chemical Inventories:**

Component(s) of this material is (are) listed on the Australian AICS, Canadian DSL, Chinese Inventory, European EINECS, Korean Inventory, Philippines PICCS,

**State Regulation**

This material is not regulated by California Prop 65, New Jersey Right-to-Know Chemical List or Pennsylvania Right-To-Know Chemical List. However for details on your regulation requirements you should contact the appropriate agency in your state.

**SECTION 16 OTHER INFORMATION**

**Revision#: 2**  
**Review Date:** 11/28/2006  
**Revision Date:** 11/28/2006  
**Revisions since last change (discussion):** This Material Safety Data Sheet (MSDS) has been newly reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-1998). We encourage you to take the opportunity to read the MSDS and review the information contained therein.

**SECTION 17 LABEL INFORMATION**

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

**PRODUCT CODE(S):** 6972900001

**DIALA® HFX**

## ATTENTION!

**PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE OIL ACNE OR DERMATITIS.**

### **Precautionary Measures:**

Avoid prolonged or repeated contact with eyes, skin and clothing. Avoid breathing of vapors, fumes, or mist. Use only with adequate ventilation. Wash thoroughly after handling.

### **FIRST AID**

**Inhalation:** If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

**Skin Contact:** Remove contaminated clothing and shoes and wipe excess from skin. Flush skin with water, then wash with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye Contact:** Flush with water. If irritation occurs, get medical attention.

**Ingestion:** DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth. In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

### **FIRE**

**In case of fire,** Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. Do not use a direct stream of water. Material will float and can be re-ignited on surface of water.

### **SPILL OR LEAK**

Dike and contain spill.

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

CONTAINS: Highly refined petroleum distillates, Blend; Butylated Hydroxy Toluene (Inhibitor), 128-37-0

**NFPA Rating (Health, Fire, Reactivity):** 0, 1, 0

### **TRANSPORTATION**

#### **US Department of Transportation Classification**

**This material is not subject to DOT regulations under 49 CFR Parts 171-180.**

**Oil:** This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

**CAUTION:** Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flames or heat. Keep container closed and drum bungs in place.

#### **Name and Address**

SOPUS Products  
P.O. Box 4427  
Houston, TX 77210-4427

<b>ADMINISTRATIVE INFORMATION</b>
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<b>MANUFACTURER ADDRESS:</b> SOPUS Products, P.O. Box 4427, Houston, TX. 77210-4427
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44866-11866-100R-01/18/2007