



# MATERIAL SAFETY DATA SHEET

Revision Date: 10/08/2004

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT: CORENA® Fluid DE 100**

**MSDS NUMBER:** 56929E - 6

**PRODUCT CODE(S):** 67227, 6722700055, 6722705203

### 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
Compressor oil		
Synthetic Esters	Mixture	90 - 99 %weight
Polymer additives	Proprietary	1 - 10 %weight

## SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Appearance & Odor:** Clear & Bright Liquid. Mild odor.

**Health Hazards:** May cause eye irritation. High-pressure injection under the skin may cause serious damage.

**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:

May be irritating to the eyes causing a burning sensation, redness, swelling and/or blurred vision.

**Skin Contact:**

May cause slight irritation of the skin. If irritation occurs, a temporary burning sensation and minor redness and/or swelling may result. Release of the material during high-pressure applications may result in injection under the skin causing possible extensive tissue damage which is difficult to heal. Other adverse effects not expected from brief skin contact.

**Ingestion:**

Generally considered to have a low order of acute oral toxicity.

**Signs and Symptoms:**

Irritation as noted above. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.

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

**Inhalation:**

Move victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. 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 material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye:**

Flush eyes with large amounts of water for at least 15 minutes. If redness, burning, blurred vision or swelling persist, transport to nearest medical facility for additional treatment.

**Ingestion:**

Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention. 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>FIRE FIGHTING MEASURES</b>
<b>SECTION 5</b>

**Flash Point [Method]:** 485 °F/251.67 °C [Cleveland Open Cup]

**Extinguishing Media:**

Material will float and can be re-ignited on surface of water.

<b>ACCIDENTAL RELEASE MEASURES</b>
<b>SECTION 6</b>

**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:**

U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity to the National Response Center at (800)424-8802.

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>HANDLING AND STORAGE</b>
<b>SECTION 7</b>

**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. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**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>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
<b>SECTION 8</b>

## Exposure Controls

Adequate ventilation to control airborne concentrations. Eye washes and showers for emergency use.

## Personal Protection

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.

## PHYSICAL AND CHEMICAL PROPERTIES

### SECTION 9

**Appearance & Odor:** Clear & Bright Liquid. Mild odor.

**Substance Chemical Family:** Lubricants

<b>Density</b>	8.03 lb/gal	<b>Flash Point</b>	485 °F [Cleveland Open Cup]
<b>Odor</b>	Mild odor.	<b>Specific Gravity</b>	0.95 - 0.96

<b>Viscosity</b>	100 cSt - 150 cSt @ 40 °F		
------------------	---------------------------	--	--

<b>SECTION 10 REACTIVITY AND STABILITY</b>
--

**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. Aldehydes, Carbon Monoxide, Carbon Dioxide, Ketones and other unidentified organic compounds may be formed upon combustion.

<b>SECTION 11 TOXICOLOGICAL INFORMATION</b>
---

**Acute Toxicity**

TEST	Result	OSHA Classification	Material Tested
Dermal LD50	> 2.0 g/kg(Rabbit)	Non-Toxic	Based on components(s)
Inhalation LC50	>5.0 mg/l(Rat)	Non-Toxic	Based on components(s)
Oral LD50	> 5.0 g/kg(Rat)	Non-Toxic	Based on components(s)

**Carcinogenicity Classification**

Chemical Name	NTP	IARC	ACGIH	OSHA
Compressor oil	No	Not Reviewed	No	No

<b>SECTION 12 ECOLOGICAL INFORMATION</b>
--

**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.

## DISPOSAL CONSIDERATIONS

### SECTION 13

#### 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.

## TRANSPORT INFORMATION

### SECTION 14

#### 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.

## REGULATORY INFORMATION

### SECTION 15

#### Federal Regulatory Status

#### OSHA Classification:

Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Comprehensive Environmental Release, Compensation & Liability Act (CERCLA):

Phthalate Ester

RQ 100 lbs

Reportable Spill => 104.166667 lbs or  
12.61 gal

#### 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
YES	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.

This product may be subject to export notification under TSCA Section 12(b); Contains: Phthalate Esters

**Other Chemical Inventories:**

Component(s) of this material is (are) listed on the Australian AICS, Canadian DSL, European EINECS,

**State Regulation**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**New Jersey Right-To-Know Chemical List:**

Phthalate Ester (3005)	90 - 99 %weight	Special Hazard
------------------------	-----------------	----------------

**Pennsylvania Right-To-Know Chemical List:**

Phthalate Ester	90 - 99 %weight	Environmental Hazard
-----------------	-----------------	----------------------

**OTHER INFORMATION**

**SECTION 16**

**Revision#: 6**

**Revision Date:** 10/08/2004

**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.

## LABEL INFORMATION

### SECTION 17

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):** 67227, 6722700055, 6722705203

### CORENA® Fluid DE 100

#### CAUTION!

**MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE OIL ACNE OR DERMATITIS. HIGH-PRESSURE INJECTION UNDER SKIN MAY CAUSE SERIOUS DAMAGE.**

#### 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:** Move victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. 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 material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

**Eye Contact:** Flush eyes with large amounts of water for at least 15 minutes. If redness, burning, blurred vision or swelling persist, transport to nearest medical facility for additional treatment.

**Ingestion:** Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical attention. 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.

#### FIRE

**In case of fire,** 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: Synthetic Esters, Mixture; Polymer additives, Proprietary

**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>
-----------------------------------

<b>MANUFACTURER ADDRESS:</b> SOPUS Products, P.O. Box 4427, Houston, TX. 77210-4427
---

THE INFORMATION CONTAINED IN THIS DATA SHEET IS BASED ON THE DATA AVAILABLE TO US AT THIS TIME, AND IS BELIEVED TO BE ACCURATE BASED UPON THAT : IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT, FOR PURPOSE OF HAZARD COMMUNICATION. IT IS NOT INTENDED TO CONSTITUTE PRODUCT PERFORMANCE INFORMATION, AND NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND IS MADE WITH RESPECT TO THE PRODUCT, UNDERLYING DATA OR THE INFORMATION CONTAINED HEREIN. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE, AND ARE ENCOURAGED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE THE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, YOU SHOULD CONSULT WITH YOUR LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. WE WILL NOT PROVIDE ADVICE ON SUCH MATTERS, OR BE RESPONSIBLE FOR ANY INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. THE UNDERLYING DATA, AND THE INFORMATION PROVIDED HEREIN AS A RESULT OF THAT DATA, IS THE PROPERTY OF SOPUS PRODUCTS AND IS NOT TO BE THE SUBJECT OF SALE OR EXCHANGE WITHOUT THE EXPRESS WRITTEN CONSENT OF SOPUS PRODUCTS.

