

COGNIS CORPORATION  
Material Safety Data Sheet

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SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

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Revised: 05/30/2002  
Supercedes: 10/09/2001

PRODUCT NAME: PROECO 468 LL BIODEGRADABLE HYDRAULIC FLUID  
PRODUCT DESCRIPTION: Hydraulic Fluid  
CASRN: Trade Secret Blend  
MANUFACTURER: Cognis Corporation  
4900 Este Avenue  
Cincinnati, OH 45232  
Phone: 888-329-2626 Fax: 513-482-5515

EMERGENCY NUMBERS:  
CHEMTREC: 800-424-9300

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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CHEMICAL	CONCENTRATION (Wt.%)	EXPOSURE LIMITS
Proprietary	100%	No PEL/TLV established

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SECTION 3: HAZARDS IDENTIFICATION

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\*\*\*\*\* Emergency \*\*\*\*\*  
\*\*\*\*\* Overview \*\*\*\*\*

Non hazardous under normal conditions of use.  
Clear yellow liquid

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SKIN CONTACT:

Similar materials are not classified as skin irritants. The skin irritation score for this substance has not been determined.

EYE CONTACT:

Similar materials are not classified as eye irritants. The eye irritation score for this substance has not been determined.

INHALATION:

No information available

INGESTION:

Similar materials are not considered toxic.

CHRONIC EFFECTS:

None Known.

OTHER HEALTH EFFECTS:

No carcinogenic, mutagenic or teratogenic effects are known. No effects of chronic exposure or target organ effects are known.

No exposure limits have been established for this product.

PRIMARY ROUTES OF EXPOSURE: Skin

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SECTION 4: FIRST AID MEASURES

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SKIN CONTACT:

Wash affected area with soap and water.

EYE CONTACT:

Immediately flush eyes with plenty of cool water for at least 15 minutes. Do not let victim rub eyes. Get medical attention if irritation develops.

INHALATION:

Immediately remove victim to fresh air. If victim has stopped breathing

give artificial respiration, preferably, mouth to mouth. Get medical attention immediately.

**INGESTION:**

Call a physician or poison control center immediately.

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**SECTION 5: FIRE FIGHTING MEASURES**

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Flash Point: 401 Deg F ( )

LFL: Not Determined

UFL: Not Determined

AUTOIGNITION TEMPERATURE Not Determined

**RECOMMENDED EXTINGUISHING MEDIA:**

Carbon dioxide, Dry chemical, Foam, Water spray

**SPECIAL FIRE FIGHTING PROCEDURES:**

Use water spray, dry chemical, foam or carbon dioxide. Water may be ineffective but should be used to keep fire exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:**

Perform only those fire fighting procedures for which you have been trained. Firefighters should wear self contained breathing apparatus in the positive pressure mode with a full facepiece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

**HAZARDOUS COMBUSTION PRODUCTS:**

Oxides of Carbon, nitrogen and phosphorus.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**STEPS TO TAKE IN CASE OF SPILL OR LEAK:**

Add dry material to absorb spill (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

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**SECTION 7: HANDLING AND STORAGE**

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No special precautions necessary. Avoid container damage while handling and storing.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**EYE PROTECTION:**

Safety glasses with side shields

**SKIN PROTECTION:**

Rubber gloves

**RESPIRATORY PROTECTION:**

NIOSH/MSHA-approved respirator if necessary. Follow manufacturer's recommendations.

**ENGINEERING CONTROLS:**

General ventilation.

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**SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

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**PHYSICAL STATE:** Liquid

**APPEARANCE:** Clear yellow liquid

**ODOR:** Odorless

**ODOR THRESHOLD:** Not Determined

pH: Not Determined  
MELTING POINT: Not Determined  
BOILING POINT: Not Determined  
SPECIFIC GRAVITY: 0.963  
SOLUBILITY IN WATER: Negligible (< 0.1 % )  
PERCENT VOLATILES (by Wt.): Not Determined  
VAPOR DENSITY: Not Determined  
VAPOR PRESSURE: Not Determined  
EVAPORATION RATE (N-BUTYL ACETATE=1): Not determined  
VOC CONTENT (EPA Method 24): Not Determined

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#### SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Normally Stable  
HAZARDOUS POLYMERIZATION: Will not occur.  
INCOMPATIBLE MATERIALS:  
Strong acids, bases and oxidizing agents.  
CONDITIONS TO AVOID:  
Avoid contact with heat, sparks, flame and all sources of ignition.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
Oxides of Carbon, nitrogen and phosphorus.

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#### SECTION 11: TOXICOLOGICAL INFORMATION

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No toxicity information available or testing conducted on this product.  
Any health or toxicological information included in Section 3 was based  
on data associated with the components or an analogous product.

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#### SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL TOXICITY:  
Not Determined  
ENVIRONMENTAL FATE:  
Not Determined

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#### SECTION 13: DISPOSAL CONSIDERATIONS

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All recovered material should be packaged, labeled, transported, and  
disposed or reclaimed in conformance with applicable laws and  
regulations and in conformance with Good Engineering Practices. Avoid  
landfilling of liquids. Reclaim where possible.

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#### SECTION 14: TRANSPORTATION INFORMATION

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OIL, LUBRICATING, NOI, OTHER THAN PETROLEUM  
NMFC: 145000  
The information provided is for domestic highway transportation only.  
This product may be regulated differently when shipped in other types  
of containers or by modes other than that addressed by this section of  
the MSDS. For information, please contact Regulatory Affairs at  
513/482-5022.  
For RQ applicability, please see Section XV.

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#### SECTION 15: REGULATORY INFORMATION

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TSCA INVENTORY STATUS:  
This product and/or all of its components are either included on or

exempt from the TSCA Inventory of Chemical Substances.

TSCA 12(b) COMPONENTS:

None

SARA 311/312 HAZARD CATEGORIES: None

SARA 313 TOXIC CHEMICALS:

None

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES:

None

CERCLA HAZARDOUS SUBSTANCES:

None

CALIFORNIA PROPOSITION 65 COMPONENTS:

None

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SECTION 16: OTHER INFORMATION

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HMIS RATINGS: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 OTHER: None

THE FOLLOWING WARNING INFORMATION IS PROVIDED ON THE LABEL FOR THIS PRODUCT:

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Non hazardous under normal conditions of use.

FIRST AID - INHALATION:

Immediately remove victim to fresh air. If victim has stopped breathing give artificial respiration, preferably, mouth to mouth. Get medical attention immediately.

FIRST AID - SKIN CONTACT:

Wash affected area with soap and water.

FIRST AID - EYE CONTACT:

Immediately flush eyes with plenty of cool water for at least 15 minutes. Do not let victim rub eyes. Get medical attention if irritation develops.

FIRST AID - INGESTION:

Call a physician or poison control center immediately.

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ABBREVIATIONS USED:

ND or N/D = Not Determined

NA or N/A = Not Applicable or Not Available

NE or N/E = Not Established

N/AP = Not Applicable

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All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is made by Cognis Corporation as to the effects of such use, the results obtained, or the safety and toxicity of the product nor does Cognis Corporation assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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