

CENTRAL PETROLEUM COMPANY

1449 W. 117 St.

Cleveland, Ohio 44107-5101

319-284-6221

MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME: Cen-Pe-Co Multi-Purpose Hydraulic & Wet Brake Oil

CAS NO: Mixture.

Synonyms: None.

Generic/Chemical Name: Mixture.

Product Type: Tractor Hydraulic Oil

Preparation/Revision Date: 2/23/94

NFPA CODE: HEALTH: 0 FIRE: 1 REACTIVITY: 0

HMIS CODE: HEALTH: 0 FIRE: 1 REACTIVITY: 0

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SECTION 1 - HAZARDOUS INGREDIENTS

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- >90% Severely Solvent Refined Paraffinic Oil
- This material is not known to contain greater than 0.1% of any carcinogen required to be listed under the OSHA Hazard Communication Standard (29CFR 1910.1200).
- From 1 to 2 percent Zinc Cl-C14 alkyldithiophosphate CAS#68649-42-3;
- <0.3 percent 2-Ethylhexanol;
- Please note that the chemical identity of some or all of the above hazardous ingredients is confidential business information and is being withheld as permitted by 29CFR 1910.1200 and various State Right to Know Laws.

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SECTION 2 - FIRE AND EXPLOSION HAZARDS

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FLASH POINT (Typical): 400 degrees F.

UPPER FLAMMABLE LIMIT: Not Determined.

LOWER FLAMMABLE LIMIT: Not Determined.

EXTINGUISHING MEDIA: CO2, Dry Chemical, Alcohol Foam. Water can be used to cool and protect exposed material.

SPECIAL FIRE FIGHTING PROCEDURES: Recommend wearing self-contained breathing apparatus. Wear structural fire fighters protective clothing. Water may cause splattering.

UNUSUAL FIRE & EXPLOSION HAZARDS: Material will float on water. Toxic fumes, gases or vapors may evolve on burning.

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**SECTION 3 - HEALTH HAZARD DATA**

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- ORAL TOXICITY:** The LD50 in rats is > 15g/kg. Based on data from components or similar materials.
- EYE IRRITATION:** Mild eye irritation is possible. Based on data from components or similar material.
- SKIN IRRITATION:** Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause irritation, dermatitis, and other skin disorders.
- DERMAL TOXICITY:** The LD50 in rabbits is > 2000 mg/kg. Based on data from components or similar materials.
- INHALATION TOXICITY:** No acute effects expected.
- RESPIRATORY IRRITATION:** If material is misted or if vapors are generated from heating, exposure may cause mild irritation of mucous membranes and the upper respiratory tract. Based on data from components and similar materials.
- EXPOSURE LIMITS:** Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

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**SECTION 3A - EMERGENCY FIRST AID PROCEDURES**

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- SKIN:** Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.
- EYE:** Flush immediately with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- INHALATION:** Remove exposed person to fresh air if adverse effects are observed.
- ORAL:** DO NOT INDUCE VOMITING. Get medical attention.
- ADDITIONAL:** Note to physician: Treat symptomatically.

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**SECTION 4 - SPECIAL PROTECTION INFORMATION**

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- VENTILATION PROCEDURE:** Use local exhaust ventilation to control mists or vapors.
- GLOVES PROTECTION:** Nitrile, PVC, Neoprene, Viton.
- EYE PROTECTION:** Chemical goggles or face shield.
- RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space and for other poorly ventilated areas and for large spill clean-up sites.

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**SECTION 4 - SPECIAL PROTECTION INFORMATION (Continued)**

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**CLOTHING RECOMMENDATION:** Long sleeve shirt is recommended. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

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**SECTION 5 - PHYSICAL DATA**

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**VAPOR PRESSURE:** Not Determined.  
**PH:** Not Determined.  
**SPECIFIC GRAVITY:** 0.88  
**WATER SOLUBILITY:** Insoluble.  
**PERCENT VOLATILE:** Unknown  
**VAPOR DENSITY:** Not Determined.  
**EVAPORATION RATE:** Not Determined.  
**ODOR:** Mild.  
**APPEARANCE:** Amber Liquid.  
**VISCOSITY:** 9.5 cSt at 100 degrees C.  
**ODOR THRESHOLD:** Unknown

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**SECTION 6 - STABILITY**

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**STABILITY:** Material is normally stable at room temperature and pressure. See Section 8, Special Precautions, for further details.

**INCOMPATIBILITY:** Acids. Oxidizing agents.

**POLYMERIZATION:** Will not occur.

**THERMAL DECOMPOSITION:** Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: Calcium, Phosphorus, Sulfur, Zinc.

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**SECTION 7 - SPILL OR LEAK PROCEDURES**

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**SPILL PROCEDURES:** Personal protective equipment must be worn, see Special Protection Information Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

**WASTE DISPOSAL:** Material, if discarded, not expected to be a characteristic hazardous waste under RCRA. Waste management should be in compliance with federal, state and local laws.

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**SECTION 8 - SPECIAL PRECAUTIONS**

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**HANDLING PROCEDURES:** Keep containers closed when not in use. Handling temperatures should not exceed 140 degrees F. (60 deg. C.). Keep away from open flame or high heat. Do not mix with inorganic nitrites or organic nitro compounds, nitrites or nitrates. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product.

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**SECTION 9 - TRANSPORTATION AND LABELING**

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DOT PROPER SHIPPING NAME: Not applicable.  
DOT HAZARD CLASS: Not applicable.  
DOT ID NUMBER (UN NO.): Not applicable.  
IMO CLASS: Not applicable.  
ICAO CLASS: Not applicable.  
CERCLA HAZARDOUS SUBSTANCES: None known.  
PRECAUTIONARY LABELS: Not applicable.

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**SECTION 10 - OTHER REGULATORY INFORMATION**

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**U.S. TSCA INVENTORY:** All components of this material are on the US TSCA Inventory.

**SARA EXT. HAZ. SUBST.:** This product is not known to contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

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This information has been compiled from sources considered to be dependable and is accurate to the best of Central Petroleum Company's knowledge; however, the Central Petroleum Company makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose regarding the accuracy of such data or the results to be obtained from the use thereof. The Central Petroleum Company assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

# MATERIAL SAFETY DATA SHEET

ADDRESS: Central Petroleum Company  
201 E. Lincoln St.  
Walcott, IA 52773

PRODUCT NAME: Cen-Pe-Co Winter Syntho Pressure Lube  
11,063  
CAS No.

Business: 563-284-6221  
Other:

SYNONYMS: Lubricating Grease  
11/01  
Chemical Family: Hydrocarbon

MATERIALS OR COMPONENTS		CAS NUMBER	CAS NUMBER	CAS NUMBER
	%W			
Mineral Oil	54-59	64742-65-0	NO	NO
Mineral Oil	22-27	64742-62-7	NO	NO
Lithium 12-Hydroxyterate Sebacate	5-12	68815-49-6	NO	NO
Polyethylene	0-2	9002-88-4	NO	NO
Zinc Alkylthiophosphate	0-2	68649-42-3	NO	NO
Calcium Carbonate	2-5	471-34-1	NO	NO

SHIPPING INFORMATION: Not Restricted

PHYSICAL PROPERTIES	
Belling Point/Range	700 °F
Specific Gravity (60/60)	0.87
Solubility in H <sub>2</sub> O	Insoluble
Appearance and Odor	Red Tacky-Blond
Flash Point	Test Method: D-92, 425 °F
Flammable Limits	Lower NA, Upper %
Autoflammation Temperature/Exp Point	>600 °F

FIRE AND EXPLOSION DATA	
EXTINGUISHING MEDIA	Water spray, foam, dry chemical, CO <sub>2</sub>
SPECIAL FIRE FIGHTING PROCEDURES	Do not enter, allow fire to burn, water may cause frothing
UNUSUAL FIRE AND EXPLOSION HAZARDS	None
STABILITY	Stable, conditions contributing to instability: None

REACTIVITY DATA	
HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (115)	CO & CO <sub>2</sub> IF INCOMPLETE COMBUSTION.
CONDITIONS TO AVOID	Heat, open flames, sparks, ignition sources
STABILITY	Stable, incompatible with: Strong acids, strong alkalis, strong oxidizers

SPILL OR LEAK	
WASTE DISPOSAL METHOD - FEDERAL, STATE AND LOCAL REGULATIONS	ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.
CONTINUED ON REVERSE SIDE	

**All Material Used To Manufacture This Product Is Listed On both the TSCA and DSL**

PLEASE NOTE: The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or mixes are beyond our control, **Behrman MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON.** User should verify himself that he has all current data relevant to the particular use.

Prepared by: Blaine Ballentine Date: 9/02  
 Address: 201 E. Lincoln St., Walcott, IA Phone: 563-284-6221

**SPECIAL PRECAUTIONS**

**PRECAUTIONARY NOTES**

Wash Thoroughly after handling  
 Do not get in eyes, or on clothing  
 Do not breathe dust, vapor, mist, gas  
 Keep container closed  
 Keep away from sparks, and open flames  
 Store in tightly closed containers

**Other handling and storage conditions**

Do not store near combustibles  
 Keep from contact with clothing and other combustible materials  
 Empty container may contain hazardous residues  
 Use explosion proof equipment (Specify):  
 Other (Specify):

**SPECIAL PROTECTION INFORMATION**

**OTHER PROTECTIVE EQUIPMENT**

Rubber boots  
 Apron  
 Other (Specify):

**RESPIRATOR TYPE - Use only NIOSH / MESA approved equipment**

Self-contained  
 Air supplied  
 Gas or vapor canister  
 Filter-dust (time, mist) (Specify):  
 Other (Specify):

**EYE**

Goggles  
 Face shield  
 Safety glasses  
 Other (Specify):

**HAND (GLOVE TYPE)**

Polyvinyl Alcohol  
 Natural rubber  
 Rubber  
 Polyethylene  
 Other (Specify):

**VENTILATION REQUIREMENTS - Always maintain exposure below permissible exposure limits**

Consult an industrial hygienist or environmental health specialist  
 Local exhaust  
 Use with adequate ventilation  
 Check for air contamination and oxygen deficiency

**HEALTH HAZARD INFORMATION**

**EMERGENT FIRST AID**

**INHALATION**

Remove to fresh air  
 If not breathing, give artificial respiration  
 Give oxygen  
 Get medical attention (Specify):  
 Other (Specify):

**EYE CONTACT**

Flush with plenty of water for at least 15 minutes  
 Get medical attention (Specify):  
 Other (Specify):

**SKIN CONTACT**

Flush with soap and water  
 Get medical attention  
 Remove a bandage, remove a liner (Specify):  
 Contaminated shoes - decontaminate (Specify):  
 Other (Specify):

**INGESTION**

Induce vomiting  
 Induce vomiting  
 DO NOT induce vomiting  
 Give plenty of water  
 Get medical attention (Specify):  
 Other (Specify):

**OTHER (Specify):** Repeated contact:  Other:  None

**LUNG EFFECTS (Specify):** None

**SKIN**

Respiratory  
 None

**IRRITATION**

SKIN  
 Eye  
 Severe  
 Moderate  
 Mild (Transient)

**ACGIH 20 OSHA 2002**

PERMISSIBLE EXPOSURE LIMIT (Specify R TLV/TWA or Ceiling [C])  
 Other:  5mg/m<sup>3</sup> For Mineral Oil

**CONCISIVITY**

SKIN  
 Eye  
 4 hrs. (DOT)  
 24 hrs. (CFCO)  
 Not Corrosive  
 May cause blindness

**BENEFITATION**

None  
 Narcotic effect  
 Cyanosis  
 Asphyxiant

**NFPA Rating**

Health: 0  
 Flammability: 1  
 Reactivity: 0  
 Protective Equipment: B

**NFPA HAZARD RATING CODES**

Least: 0  
 Slight: 1  
 Moderate: 2  
 High: 3  
 Extreme: 4

**TOXICITY INFORMATION**

CAS# 68649-42-3  
 Chemical Name: Zinc Alkylthiophosphate  
 Percent by Weight: 0-2

This product has been used for years with no known ill effects. It contains no known carcinogens or mutagens as defined by OSHA or IARC.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372):

PRIMARY ROUTES OF ENTRY:  INHALATION  SKIN CONTACT  OTHER (Specify):

EXCESSIVE CONTACT:  INHALATION  SKIN CONTACT

CONDITIONS TO AVOID:

Before using product, read and follow directions and precautions on product label and bulletin.

**CENTRAL PETROLEUM COMPANY**  
**1449 W. 117 St.**  
**Cleveland, OH 44107-5101**  
**319-284-6221**  
**MATERIAL SAFETY DATA SHEET**

PRODUCT TRADE NAME: **CEN-PE-CO DIESELMAX**

**1.—CHEMICAL PRODUCT**

CAS Registry Number	Mixtures
Synonyms	None
Generic/Chemical Name	Mixture
Preparation/Revision Date	3/24/00

**2.—COMPOSITION, INFORMATION ON INGREDIENTS**

- Hazardous Ingredients** -From 60 to 65% Petroleum Oil, CAS no: 64742-53-6 ACGIH, TLV-TWA: 5 ppm; OSHA, PEL: 5 ppm
- From 12 to 16% Petroleum distillate, CAS no: 68477-31-6;
  - From 5 to 8% Alkyl ester copolymer
  - From 5 to 8% Light aromatic petroleum naphtha, CAS no: 64742-95-6; Supplier Recommended exposure limit, TWA: 100.00 ppm
  - From 1 to 3% Trimethylbenzene (mixed isomers), CAS no: 25551-13-7; OSHA PEL: 125.00 mg/ cu M., 25.00 ppm; ACGIH TLV-TWA: 123.00 mg/ cu M., 25.00 PPM;
  - From 1 to 3% 2-Ethylhexanol, CAS no: 104-76-7;
  - 1.6% 1,2,4-Trimethylbenzene, CAS no: 95-63-6; ACGIH TLV-TWA: 123.00 mg/ cu M., 25.00 ppm;
  - 1.3% Naphthalene, CAS no: 91-20-3; OSHA PEL: 50.00 mg/ cu M., 10.00 ppm; OSHA STEL: 75.00 mg/ cu M., 15.00 ppm; ACGIH TLV-TWA: 52.00 mg/ cu M., 10.00 ppm; ACGIH TLV STEL: 79.00 mg/ cu M., 15.00 ppm;
  - From 1 to 3% Hydroxyethylated aminoethylamide
  - From 0.6 to 1.2% Alkenyl carboxylic acid
  - From .2 to 1.3% 1,3,5-Trimethylbenzene, CAS no: 108-67-8;
  - 0.5% Xylene, CAS no: 1330-20-7; OSHA PEL: 435.00 mg/ cu M., 100.00 ppm; OSHA STEL: 655.00 mg/ cu M., 150.00 ppm; ACGIH TLV-TWA: 434.00 mg/ cuM., 100.00 ppm; ACGIH TLV STEL: 651.00 mg/ cu M., 150.00 ppm;
  - 0.3% Cumene, CAS no: 98-82-8; OSHA PEL: 245.00 mg/ cu M., 50.00 ppm; ACGIH TLV-TWA: 246.00 mg/ cu M., 50.00 ppm (skin);
  - From 0.1 to 0.9% Alkylphenol/formaldehyde resin

**2.—COMPOSITION, INFORMATION ON INGREDIENTS** (Continued)

-<0.3% Ethylbenzene, CAS no: 100-41-4; OSHA PEL: 435.00 mg/ cu M., 100.00 ppm; OSHA STEL: 545.00 mg/ cu M., 125.00 ppm; ACGIH TLV-TWA: 434.00 mg/ cu M., 100.00 ppm; ACGIH TLV STEL: 543.00 mg/ cu M., 125.00 ppm;

-<0.1% Vinyl acetate, IARC Suspect Carcinogen, CAS no: 108-05-4; OSHA PEL: 30.00 mg/ cu M., 10.00 ppm; OSHA STEL: 60.00 mg/ cu M., 20.00 ppm; ACGIH TLV-TWA: 35.00 mg/ cu M., 10.00 ppm; ACGIH TLV STEL: 53.00 mg/ cu M., 15.00 ppm; Supplier Recommended exposure limit, TWA: 10.00 ppm

**3.—HAZARDS IDENTIFICATION****Principal Hazards**

- WARNING.**
- HARMFUL IF INHALED.
  - CAUSES EYE IRRITATION.
  - CAUSES SKIN IRRITATION.
  - CAUSES RESPIRATORY TRACT IRRITATION.
  - MAY CAUSE ALLERGIC SKIN REACTION.
  - HARMFUL IF ABSORBED THROUGH SKIN.
  - COMBUSTIBLE LIQUID.
  - CONTAINS COMPONENTS WHICH MAY CAUSE CANCER.
  - MAY CAUSE CHRONIC HEALTH EFFECTS.

**See Section 11 for complete health hazard information.**

**4.—FIRST AID MEASURES**

- |                   |  |
|-------------------|--|
| <b>Oral</b>       | DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.  |
| <b>Eye</b>        | Flush immediately with water for at least 15 minutes. Get immediate medical attention.   |
| <b>Skin</b>       | Wash immediately with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation persists. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.       |
| <b>Inhalation</b> | Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention. |
| <b>Additional</b> | Note to physician: Treat symptomatically.  |



**5.—FIRE FIGHTING MEASURES**

<b>Flash Point, Typical</b>	250° F.
<b>Upper Flammable Limit</b>	Not determined.
<b>Lower Flammable Limit</b>	Not determined.
<b>Extinguishing Media</b>	CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
<b>Special Fire Fighting Procedures</b>	Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.
<b>Unusual Fire &amp; Explosion Hazards</b>	Toxic fumes, gasses or vapors may evolve on burning. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating.
<b>Autoignition Temperature</b>	Not determined.
<b>Explosion Data</b>	Material does not have explosive properties.

**6.—ACCIDENTAL RELEASE MEASURES**

<b>Spill Procedures</b>	Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.
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**7.—HANDLING AND STORAGE**

<b>Handling Procedures</b>	Open container in a well-ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.
<b>Storage Procedures</b>	Store in well-ventilated area protected from rain.

**8.—EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Ventilation Procedures</b>	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
<b>Gloves Protection</b>	Viton. Nitrile.
<b>Eye Protection</b>	Chemical goggles or faceshield.

**8.—EXPOSURE CONTROLS/PERSONAL PROTECTION** (Continued)

<b>Respiratory Protection</b>	Use NIOSH/MSHA approved full-face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
<b>Clothing Recommendation</b>	Long sleeve shirt is recommended. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

**9.—PHYSICAL AND CHEMICAL PROPERTIES**

<b>Vapor Pressure</b>	Not determined.
<b>pH</b>	Not determined.
<b>Specific Gravity</b>	0.91
<b>Water Solubility</b>	Insoluble.
<b>Percent Volatile</b>	31
<b>Vapor Density</b>	Not determined.
<b>Evaporation Rate</b>	Not determined.
<b>Odor</b>	Mild.
<b>Appearance</b>	Amber colored liquid.
<b>Viscosity</b>	16cSt (40° C.)
<b>Odor Threshold</b>	Unknown.
<b>Boiling Point</b>	Not determined.
<b>Freezing Point</b>	Not determined.
<b>Molecular Weight</b>	Not determined.

**10.—STABILITY AND REACTIVITY**

<b>Stability</b>	Material is normally stable at moderately elevated temperatures and pressures.
<b>Incompatibility</b>	Oxidizing agents.
<b>Polymerization</b>	Will not occur.
<b>Thermal Decomposition</b>	Smoke, carbon monoxide, aldehydes, ketones, and other products of incomplete combustion. Nitrogen oxides.

**11.—TOXICOLOGICAL INFORMATION****-- ACUTE EXPOSURE --**

<b>Oral Toxicity</b>	Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Ingestion may cause CNS depression.
<b>Eye Irritation</b>	Moderate to strong eye irritation. Based on data from components or similar material.
<b>Skin Irritation</b>	Skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.
<b>Dermal Toxicity</b>	Skin absorption of components of the material may cause systemic effects; note toxicity from other sections.

**11.—TOXICOLOGICAL INFORMATION** (Continued)

<b>Inhalation Toxicity</b>	High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing, and convulsions. The LC50 in rat (4 hr) for xylene is 6,700 ppm.
<b>Respiratory Irritation</b>	Nose, throat, and lung irritant. Based on data from components or similar materials. Exposure to a high concentration of vapor or mist is irritating to the respiratory tract. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease. Residual vinyl acetate monomer may cause respiratory irritation.
<b>Dermal Sensitization</b>	May cause allergic skin reaction in susceptible individuals.
<b>Inhalation Sensitization</b>	No data available to indicate product or components may be respiratory sensitizers.

**-- CHRONIC EXPOSURE --**

<b>Chronic Toxicity</b>	Xylene has been found to cause cardiac, liver, and kidney effects, anemia and eye damage in laboratory animals. Prolonged and repeated inhalation of hydrocarbon solvents such as xylene can cause chronic neurological disturbances. Prolonged or repeated overexposure to petroleum naphtha may cause liver and kidney damage. A 14-day dermal toxicity study of 2-ethylhexanol in rats showed blood effects, decreased spleen weight and decreased triglycerides. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice, and kidney and liver damage. Repeated ingestion of 2-ethylhexanol may cause injury to the liver and kidneys. Chronic exposure to xylene has been shown to cause hearing loss in experimental animals.
<b>Carcinogenicity</b>	Lifetime skin painting studies with products similar to kerosene usually produce skin tumors and a skin cancer in laboratory mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. Limited studies on carcinogenic oils have shown that washing the animal's skin with soap and water between applications greatly reduces tumor formation. This product contains less than 0.1% vinyl acetate. Drinking water studies of vinyl acetate in rats showed suggestive evidence of treatment-related tumors in the uterus and thyroid. An inhalation study showed suggestive evidence of a treatment-related lung tumor in mice and treatment-related nasal and/or larynx tumors in rats. In an unpublished NTP study, mice exposed to 10 and 30 ppm naphthalene for two years demonstrated an increased incidence of lung tumors. A National Toxicology Program (NTP) study found an increased incidence of renal tubule neoplasms in male and

**11.—TOXICOLOGICAL INFORMATION** (Continued)

<b>Mutagenicity</b>	female rats exposed to ethylbenzene by inhalation for two years. In male and female mice similarly exposed, increased incidences of alveolar/bronchiolar neoplasms, and hepatocellular neoplasms, respectively, were observed. Results of vinyl acetate mutagenicity tests are ambiguous; in-vitro evidence is suggestive of mutagenicity and in-vivo are not.
<b>Reproductive Toxicity</b>	No data available to indicate either product or components present at greater than 0.1% may cause reproductive toxicity.
<b>Teratogenicity</b>	No evidence of adverse effects was found in a developmental toxicity study of 2-ethylhexanol in rats. Doses up to 3 ml/kg applied to the skin during the most critical part of the gestation period produced evidence of toxicity to mothers, but no evidence of injury in the developing offspring. In a previous study, birth defects were observed by oral administration, an unlikely route of exposure in the workplace. Xylene is fetotoxic in rats and rabbits in the absence of maternal toxicity.

**-- ADDITIONAL INFORMATION --**

<b>Other</b>	No other health hazards known.
<b>Exposure Limits</b>	See Hazardous Ingredients Section for any applicable exposure limits for components.

**12.—DISPOSAL CONSIDERATIONS**

<b>Waste Disposal</b>	This material, if discarded, is a hazardous waste under RCRA Regulation 40 CFR 261. Waste management should be in compliance with federal, state, and local laws. .000086% Benzene, CAS no 71-43-2, D018.
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**13.—TRANSPORT INFORMATION**

<b>U.S.DOT Bulk Shipping Description</b>	Not applicable.
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**14.—REGULATORY INFORMATION**

<b>U.S. TSCA Inventory</b>	All components of this material are on the US TSCA Inventory.
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**14.—REGULATORY INFORMATION** (Continued)

<b>Other TSCA Reg.</b>	Section 8d (1-Hexanol, 2-ethyl-). Section 8d (2-Butoxyethanol). Section 8d (Benzene, 1,2,4-trimethyl-). Section 8d (Benzene, 1,3,5-trimethyl-). Section 8d (Cresol). Section 8d (Cumene). Section 8d (2,6-Dimethylphenol). Section 8d (Ethylbenzene). Section 8d, 4a (Isopropyl alcohol). Section 8d (Naphthalene). Section 8d (Petroleum naphtha). Section 8d (Phenol). Section 8d (Toluene). Section 8d (Trimethyl benzene). Section 4a (Ethyl-1-hexanol). Section 8d (Xylene).
<b>SARA Ext. Haz. Subst.</b>	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
<b>SARA Section 313</b>	1.6% Benzene, 1,2,4-trimethyl-, CAS no. 95-63-6 1.3% Naphthalene, CAS no. 91-20-3 0.5% Xylene, CAS no. 1330-20-7 0.3% Cumene, CAS no. 98-82-8 <0.1% Vinyl acetate, CAS no. 108-05-4

**15.—OTHER INFORMATION**

<b>NFPA Code</b>	Health: 2	Fire:1	Reactivity: 0
<b>HMIS Code</b>	Health: 2	Fire:1	Reactivity: 0

**WARNING.**

- HARMFUL IF INHALED.
- CAUSES EYE IRRITATION.
- CAUSES SKIN IRRITATION.
- CAUSES RESPIRATORY TRACT IRRITATION.
- HARMFUL IF ABSORBED THROUGH SKIN.
- CONTAINS COMPONENTS WHICH MAY CAUSE CANCER.
- MAY CAUSE CHRONIC HEALTH EFFECTS.

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