



#### Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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#### 4. FIRST AID MEASURES

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##### First Aid

###### INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

###### SKIN CONTACT

Wipe off excess with towel. Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

If injected under the skin, necrosis could occur. See physician.

###### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

###### INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

##### Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

High velocity injection under the skin can cause a bloodless puncture wound and result in necrosis. Immediate attention by a surgical specialist is recommended.

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#### 5. FIRE FIGHTING MEASURES

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##### Flammable Properties

Flash Point : 500 F (260 C) (Base Oil)  
Method : Cleveland Open Cup - COC.  
Autoignition : Not Available

NFPA Classification : Class IIIIB Combustible Liquid.  
NFPA Rating : Health 0; Flammability 1; Reactivity 0.

##### Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

##### Fire Fighting Instructions

Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space

without proper protective equipment including respiratory protection.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

### Spill Clean Up

Recover undamaged and minimally contaminated material for reuse and reclamation. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

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## 7. HANDLING AND STORAGE

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### Handling (Personnel)

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

### Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

### Storage

Store in accordance with National Fire Protection Association recommendations. Store away from oxidizers, heat, sparks and flames.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls

#### VENTILATION

Normal shop ventilation.

### Personal Protective Equipment

#### RESPIRATORY PROTECTION

None normally required except under unusual circumstances such as described under fire fighting measures.

#### PROTECTIVE GLOVES

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

#### EYE PROTECTION

Safety glasses with side shields.

#### OTHER PRECAUTIONS

Avoid prolonged skin contact by practicing good personal hygiene and laundering contaminated clothing.

#### Exposure Limits

PEL	(OSHA)	: None Established
TLV	(ACGIH)	: None Established

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical Data

Boiling Point : Not Applicable  
Vapor Pressure : Nil  
Vapor Density : >1 (Air=1.0)  
% Volatiles : Nil  
Evaporation Rate : Nil  
Solubility in Water : Insoluble  
Odor : Petroleum Hydrocarbon (mild).  
Form : Solid.  
Color : Amber.  
Specific Gravity : Not Available  
Density : 7.1-7.2 lb/gal @ 60 F (16 C)

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10. STABILITY AND REACTIVITY

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Chemical Stability

Stable.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

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11. TOXICOLOGICAL INFORMATION

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Animal Data

Mouse skin painting studies have shown that highly refined petroleum lube base oils similar to ingredients in this product have not caused skin tumors.

Animal skin exposure studies show high concentrations of zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would be unlikely to cause testicular damage.

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12. ECOLOGICAL INFORMATION

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Ecotoxicological Information

No specific aquatic data available for this product.

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13. DISPOSAL CONSIDERATIONS

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Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Incinerate material in accordance with Federal, State/Provincial and Local requirements. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

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14. TRANSPORTATION INFORMATION

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Shipping Information

DOT: Not regulated.  
ICAO/IMO: Not restricted.  
Canada: Not regulated.

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15. REGULATORY INFORMATION

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U.S. Federal Regulations

OSHA HAZARD DETERMINATION

This material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

SARA, TITLE III, 311/312

Acute : No  
Chronic : No  
Fire : No  
Reactivity : No  
Pressure : No

SARA, TITLE III, 313

This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical : Zinc Compound.  
CAS Number : Not available.

TSCA

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient : Petroleum Hydrocarbons.  
Reportable Quantity : Film or sheen upon or discoloration of

any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient : Zinc Compound.  
CAS Number : Not available.  
Category : Environmental Hazardous Substance.

Canadian Regulations

This is not a WHMIS Controlled Product.

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16. OTHER INFORMATION

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Sales Office Numbers:

Australia	India
Office Manager	Tel: 91-80-227 7462/7463
Office Hours 8 a.m.-5 p.m.	Fax: 91-80-221 5513
Monday-Friday (excluding holidays)	
Tel: 61-7-5452 9900	
Fax: 61-7-5452 9999	

Malaysia	Mexico
Tel: 60-3-202 5233	Tel: 0-1-800-709-1200
Fax: 60-3-202 5266	Fax: 52-5-722-1455

Singapore	Thailand
Tel: 65-536 0010	Tel: 66-2-955-0195
Fax: 65-536 0012	Fax: 66-2-955-0190

Other  
Tel: 281-293-5768  
Fax: 281-293-2287

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Coordinator  
Address : Conoco Inc.  
> : PO Box 2197  
> : Houston, TX 77252  
Telephone : 1-281-293-5550

# Indicates updated section.

End of MSDS