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## Safety Data Sheet

Issue Date 11-Feb-2013

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Product identifier

##### Product Name

Anti-Wear HF Blue 150 Hydraulic Oil  
CM45885 HF104(Drums), HF 102 (Gallon Twin Packs), HF101 (Gallons), 3KD75 (Gallons), HF100 (Quarts), 3KD76 (Quarts)

#### Other means of identification

##### Product Code

159

##### Revision Number

2661

##### Synonyms

None

#### Recommended use of the chemical and restrictions on use

##### Recommended Use

Lubricant.

##### Uses advised against

No information available

#### Details of the supplier of the safety data sheet

##### Manufacturer Address

U.S. Lubricants A Division of U.S. Venture, Inc. 425 Better Way Appleton, WI 54915

#### Emergency telephone number

##### Company Phone Number

800-490-4900

##### 24 Hour Emergency Phone Number

800-424-9300 (CHEMTREC 705487)

### 2. HAZARDS IDENTIFICATION

#### Classification

Skin Sensitizer

Category 1

#### Unknown Toxicity

Acute Toxicity, Oral	0.0%
Acute Toxicity, Dermal	0.0%
Acute Toxicity, Inhalation, Vapor	0.3456%
Acute Toxicity, Inhalation, dust or mist	0.3456%

#### Label elements

#### Emergency Overview

##### Warning

##### Hazard statements

May cause an allergic skin reaction

**Appearance** Viscous**Physical state** Liquid**Odor** Mild Petroleum**Precautionary Statements - Prevention**

Avoid breathing dust/fumes/gas/mist/vapors/spray.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves

**Response**

If on Skin: Wash with plenty of water. If skin irritation persists seek medical attention.

**Disposal**

Dispose of contents/container to an appropriate treatment or disposal facility in accordance with applicable laws and regulations and product characteristics at time of disposal

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	90-99
Zinc alkyldithiophosphate	4259-15-8	< 1

### 4. FIRST AID MEASURES

**First aid measures**

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 20 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact</b>	Rinse thoroughly with plenty of water for at least 20 minutes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse. Wash with soap and water.
<b>Inhalation</b>	Remove to fresh air. Administer oxygen if breathing is difficult. Use only artificial respiration if victim is not breathing. If symptoms continue seek medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Get medical attention. Drink 1 or 2 glasses of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Large Fires: water spray, fog or regular foam. Small fires: dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient. Do not use a water jet.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

Toxic Fumes may be evolved on burning or exposure to heat (Carbon Monoxide and others). Pressure may increase in overheated closed containers. Store below 120°F

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Stop leak if you can do it without risk. Do not walk through spill.

**Environmental precautions**

**Environmental precautions** Keep unauthorized personnel away. Stay upwind. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Prevent product from entering drains. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fume/mist/vapors/spray.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a dry, cool and well-ventilated place. Use mild steel or High Density Polyethylene containers. Do not use PVC. Store at temperatures not exceeding 120°F.

**Incompatible materials** Incompatible with oxidizing agents. Incompatible with strong acids and bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical	Type	Exposure Limit Values	Source
Petroleum distillates, hydrotreated heavy paraffinic	TWA	5 mg/m <sup>3</sup>	ACGIH
Toluene	TWA	20 ppm	ACGIH
Xylene	PEL Long-Term	435 mg/m <sup>3</sup> ; 100 ppm	-
Xylene	REL Long-Term	435 mg/m <sup>3</sup> ; 100 ppm	-
Xylene	TLV Long-Term	435 mg/m <sup>3</sup> ; 100 ppm	-
Ethylbenzene	TLV Long-Term	87 mg/m <sup>2</sup> ; 20 ppm	-

#### Biological Limit Values

Chemical	Type	Source
Toluene(o-cresol, with hydrolysis: Sampling time: End of shift)	0.3 mg/g (Creatinine in Urine)	ACGIH BEI
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEI
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEI
Xylene (methylhippuric acids: Sampling time: End of shift)	1.5 g/g (Creatinine in Urine)	BEI
Ethylbenzene (mandelic acid and phenylglyoxylic acid: Sampling time: End of shift at end of work week) (Ethyl benzene: no time restriction)	0.7 g/g (Creatinine in Urine) 0.7 g/g (End-exhaled air)	BEI

### Appropriate engineering controls

#### Engineering Controls

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear protective nitrile or Neoprene™ gloves. Use good industrial hygiene practices. Avoid skin contact, in case of skin contact wash effected area with soap and water.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General Hygiene Considerations</b>	Do not eat, drink or smoke when using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Mild Petroleum
<b>Appearance</b>	Viscous	<b>Odor threshold</b>	No information available
<b>Color</b>	Blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	Essentially Neutral	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling point / boiling range</b>	No information available	
<b>Flash point</b>	400°F	
<b>Evaporation rate</b>	Less than 0.01 (@1ATM and 25°C. n-butyl acetate=1	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	10% (Estimated Value)	
<b>Lower flammability limit:</b>	1% (Estimated Value)	
<b>Vapor pressure</b>	Less than 0.01 mm HG	
<b>Vapor density</b>	Greater than 1 (Air=1)	
<b>Specific Gravity</b>	0.860 lbs/gal: 7.11	
<b>Water solubility</b>	Insoluble in water	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	30-34 cSt@ 40°C	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	Negligible
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY****Reactivity**

Not Applicable

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid**

Strong oxidizing agents. Heat, flames and sparks. Extreme temperatures and direct sunlight.

**Incompatible materials**

Incompatible with oxidizing agents. Incompatible with strong acids and bases.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information** No data available.

**Inhalation** Avoid breathing vapors or mists. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye contact** Contact with eyes may cause irritation.

**Skin Contact** Contact may cause redness and irritation.

**Ingestion** Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	Inhalation TLo
Zinc alkyldithiophosphate	= 3100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Petroleum distillates, hydrotreated heavy paraffinic	> 15g/kg (Rat)	> 5 g/kg (Rabbit)	1000 mg/m <sup>3</sup> (4 wks)

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Irritating to skin.

**Serious eye damage/eye irritation** Irritating to eyes.  
May cause skin and eye irritation. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

**Irritation**

**Sensitization** Category 1 Skin Sensitization

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic life with long lasting effects

0.01% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	No information available	No information available		No information available
Zinc alkyldithiophosphate 4259-15-8	EC 50 (Scenedesmus quadricauda, 3 d): 410 mg/l NOEC (Scenedesmus quadricauda, 3 d): 220 mg/l	LC 50 (Rainbow Trout, 4 d): 4.4 mg/l NOEC (Rainbow Trout, 4 d): 3.2 mg/l		EC 50 (Daphnia magna, 2 d): 75 mg/l NOEC (Daphnia magna, 2 d): 32 mg/l EC 50 (Daphnia magna, 21 d): >0.8 mg/l NOEC (Daphnia magna, 21 d): 0.4 mg/l

**Persistence and degradability**

Chemical Name	Partition coefficient
Zinc alkyldithiophosphate 4259-15-8	Log Kow: 3.6

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**ICAO (air)** Not regulated

**IATA** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

- TSCA** All components of this material are on the US TSCA Inventory or are exempt.
- DSL/NDL** All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
- EINECS/ELINCS** Complies
- ENCS** Complies
- IECSC** Complies
- KECL** Complies
- PICCS** Complies
- AICS** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	SARA 313 - Threshold Values %
Zinc alkyldithiophosphate	4259-15-8	1.0
Toluene	108-88-3	1.0
Xylene	1330-20-7	-
Ethylbenzene	100-41-4	-

#### SARA 304 Emergency Release Notification

Chemical Identity	Cas No.	Percent by weight	Reportable Quantity
Toluene	108-88-3	<.01%	1000 lbs.
Zinc alkyldithiophosphate	4259-15-8	<1%	See regulation for further details
Aryl phosphite	101-02-0	<0.1%	See regulation for further details
Maleic anhydride	108-31-6	<10 ppm	5000 lbs
Phenol	108-95-2	<1 ppm	1000 lbs
Vinyl acetate	108-05-4	<1 ppm	5000

#### SARA 311/312 Hazard Categories

**Acute health hazard** No  
**Chronic Health Hazard** Product Contains Toluene (<0.01%) which is listed.  
**Fire hazard** No  
**Sudden release of pressure hazard** No  
**Reactive Hazard** No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc alkyldithiophosphate 4259-15-8		X		

#### CERCLA

Chemical Name	Reportable Quantity	Necessary Release of mixture
Toluene (108-88-3)	1000 lbs.	> 34 million lbs.
Maleic Anhydride (108-31-6)	5000 lbs.	> 2.3 billion lbs.
Phenol (108-95-2)	1000 lbs.	> 2.1 billion lbs.
Vinyl Acetate (108-05-4)	5000 lbs.	> 15 billion lbs.
Xylene (1330-20-7)	100 lbs.	>800,000 lbs.
Ethylbenzene (100-41-4)	1000 lbs.	25 Million lbs.

### US State Regulations



**California Proposition 65**

**Warning:** This product contains substances known to the State of California to cause birth defects or other reproductive harm.

Toluene

Benzene

**Warning:** This product contains substances known to the State of California to cause cancer.

Benzene

Ethyl Acrylate

Ethylbenzene

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	California	Minnesota	Rhode Island
Zinc alkyldithiophosphate 4259-15-8	X		X			
Xylene 1330-20-7	X	X	X	X	X	X
Ethylbenzene 100-41-4	X	X	X	X	X	X

**Carcinogenic Categories**

**EPA**

Xylene: I

Ethylbenzene: D

**TLV**

Xylene: A4

Ethylbenzene: A3

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards 1	Flammability 1	Instability 0	Physical and Chemical Properties -
<b>HMIS</b>	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection X

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Revision Note

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**