



Enerpac, A Division of Actuant  
 N86 W12500 Westbrook Crossing  
 Menomonee Falls, WI 53051  
 Phone: (262) 293-1500 Fax: (262) 293-7040

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NO.: 159

CM45885 HF104 (Drums), HF 102 (Gallon Twin Packs), HF101 (Gallons), 3KD75 (Gallons), HF100 (Quarts), 3KD76 (Quarts)

PRODUCT TRADE NAME:  
 REVISION NUMBER: 2661  
 PREPARATION/REVISION DATE: 02/11/13  
 REVISED FROM (DATE): 01/25/12

Enerpac HF Blue150 Hydraulic

### SECTION 2– HAZARDS IDENTIFICATION

EMERGENCY PHONE #: (920)-735-8298  
 NFPA CODE: Health: 1 Fire: 1 Reactivity: 0  
 HMIS CODE: Health: 1 Fire: 1 Reactivity: 0

### SECTION 3 – COMPOSITION

This material is not known to contain greater than 0.1% of any carcinogen required to be listed under the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 This material is not known to contain any VOC's.

Component	Cas #	%	OSHA PEL	ACGIH TLV
Hydrotreated heavy paraffinic distillate	64742-54-7	45-55	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Interchangeable neutral oils	64742-65-0	45-55	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Dimethylbenzenes	1330-20-7	<1	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Ethylbenzenes	100-41-4	<1	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Zinc alkyldithiophosphate	4259-15-8	<1	N.E.	N.E.
Aryl phosphate	101-02-0	<1	N.E.	N.E.
Toluene	108-88-3	<1	N.E.	N.E.
Phenol	108-95-2	<1	N.E.	N.E.

### SECTION 4 – EMERGENCY FIRST AID PROCEDURES

SKIN: Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

EYE: Flush 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! If conscious, give 2 glasses of water. Get immediate medical attention.

ADDITIONAL: Note to physician: treat symptomatically.

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### **SECTION 5 – FIRE AND EXPLOSION HAZARDS**

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FLASH POINT: 400°F  
UPPER FLAMMABLE LIMIT: 10% (Estimated value)  
LOWER FLAMMABLE LIMIT: 1% (Estimated value)

EXTINGUISHING MEDIA:  
CO<sub>2</sub>, dry chemical, foam, water spray, water fog

SPECIAL FIRE FIGHTING PROCEDURES:  
Wear self contained breathing apparatus with full face piece. Cool exposed containers with water spray. Avoid breathing fumes.

UNUSUAL FIRE & EXPLOSION HAZARDS:  
Toxic fumes may be evolved on burning or exposure to heat. Pressure may increase in overheated closed containers. Store below 120°F.

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### **SECTION 6 -- SPILL OR LEAK PROCEDURES**

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SPILL PROCEDURES: Prevent entry into sewers and waterways. Pick up free liquid for recycle or disposal. Absorb small amounts with an inert material.

WASTE DISPOSAL: Dispose according to current local, state and federal regulations. Materials may become hazardous waste through use. If permitted, incineration may be practical. Consider recycling.

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### **SECTION 7 – HANDLING AND STORAGE**

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Keep containers closed when not in use. Do not handle or store near high heat or flames. Avoid breathing oil mists, wash skin thoroughly with soap and water after handling

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### **SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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VENTILATION PROCEDURE: Use local exhaust ventilation to control dust.

GLOVE PROTECTION: Neoprene or Nitrile Gloves Recommended.

EYE PROTECTION: Safety glasses recommended.

RESPIRATORY PROTECTION: Normally not required, mask or respirator for mists.

CLOTHING RECOMMENDATION: Launder as needed to prevent repeated or prolonged contact.

#### « ACUTE EXPOSURE »

ORAL TOXICITY: Low order of acute oral toxicity. May cause irritation of the gastrointestinal tract, nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

EYE IRRITATION: Eye irritant. Based on data from components or similar material.

SKIN IRRITATION: 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.

DERMAL TOXICITY: The LD50 in rabbits is > 2000 mg/kg. Based on data from components or similar materials.

INHALATION TOXICITY: No data available to indicate product or components may be a toxic inhalation hazard.

RESPIRATORY IRRITATION: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed respiratory irritation should not be a problem.

DERMAL SENSITIZATION: No data available to indicate product or components may be a skin sensitizer.

INHALATION SENSITIZATION: No data available to indicate product or components may be a respiratory sensitizer.

#### CHRONIC EXPOSURE

CHRONIC TOXICITY: No data available to indicate product or components present at greater than 1% are chronic health hazards.

CARCINOGENICITY: No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

REPRODUCTIVE TOXICITY: No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

TERATOGENICITY: No data available to indicate either product or components contained at greater than 0.1% may cause birth defects.

« ADDITIONAL INFORMATION »

OTHER: No other health hazards known.

EXPOSURE LIMITS: See Section 3 for any applicable exposure limits for components.

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**SECTION 9 – PHYSICAL DATA**

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VAPOR PRESSURE: Less than 0.01 mm Hg @ 20°C  
PH: Essentially Neutral  
SPECIFIC GRAVITY: 0.85  
LB/GAL: 7.11  
WATER SOLUBILITY: Insoluble  
PERCENT VOLATILE: Negligible from open container in 4 hours @ 38°C (100°F)  
VAPOR DENSITY: Greater than 1 (Air = 1)  
EVAPORATION RATE: Less than 0.01 (@ 1 ATM and 25°C. n-butyl acetate = 1)  
ODOR: Mild Petroleum oil like  
APPEARANCE: Blue Viscous Liquid  
VISCOSITY: 30-34 cSt @ 40°C

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**SECTION 10 – STABILITY**

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STABILITY: Stable  
INCOMPATIBILITY: Oxidizing agents and acids.  
POLYMERIZATION: Will not occur.  
THERMAL DECOMPOSITION: Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and short chain alkyl mercaptans may also be released. Under combustion conditions, oxides of the following elements will be formed: Phosphorus, Sulfur, Zinc.

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**SECTION 11 – TOXICOLOGICAL INFORMATION**

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**EYES:**  
Unlikely to cause more than transient stinging or redness if accidental eye contact occurs

**SKIN:**  
Unlikely to cause harm to the skin on brief or occasional contact but prolonged or exposure may lead to dermatitis.

**INGESTION:**

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

**INHALATION:**

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its volatility.

May cause irritation to eyes, nose, and throat due to exposure to vapor, mists, or fumes.

**SECTION 12 – ECOLOGICAL INFORMATION****MOBILITY:**

Spillage may penetrate the soil causing ground water contamination.

**PERSISTENCE AND DEGRADABILITY:**

This product is inherently biodegradable.

**BIO-ACCUMULATIVE POTENTIAL:**

There is no evidence to suggest bio-accumulation will occur.

**AQUATIC TOXICITY:**

Spill may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose according to current local, state and federal regulations. Materials may become hazardous waste through use. If permitted, incineration may be practical. Consider recycling.

**SECTION 14 – TRANSPORTATION**

TRANSPORTATION INCIDENT INFORMATION: For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION: Not Regulated.

**SECTION 15 – REGULATORY INFORMATION**

Not classified as hazardous for supply.

Refer to your national legislation implementing the EC Directive 91/155/EG

**SARA Ext. Haz. Subst.** This product does not contain greater than 1.0% of any chemical substances on the SARA Extremely Hazardous Substances list.

**SARA Section 313** Contains 0.3%-0.5% zinc compounds.  
Contains 0.002% Ethylbenzenes  
Contains 0.008% Dimethylbenzenes

**SARA 311 Classifications**

Chronic Hazard	YES
Acute Hazard	YES
Fire Hazard	NO
Reactivity Hazard	NO

**Toxic Substance Control Act (TSCA) Status:**

The materials in this product are listed on the EPA/TSCA Inventory of Chemical Substances.

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***SECTION 16 – OTHER INFORMATION***

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OSHA REQUIRED LABEL INFORMATION: In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of seller's knowledge, however, seller makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof, seller assumes no responsibility for injury to buyer or to third persons or for any damage to any property and buyer assumes all such risks.

N.A. = Not Applicable    N.D. = Not Determined    N.E. = Not Established

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