

Prepared according to 29CFR 1910.1200.

<b>1</b>	<b>Chemical Product and Company Identification</b>
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<b>Product Trade Name</b>	VILTER HC-68
<b>CAS Number</b>	Not applicable for mixtures.
<b>Synonyms</b>	None.
<b>Generic Chemical Name</b>	Mixture.
<b>Product Type</b>	Formulated Industrial Lubricant.
<b>Preparation/Revision Date</b>	25 September 2012
<b>Transportation Emergency Phone No.</b>	FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
<b>MSDS No.</b>	42125568-7522329-5077221-102103

<b>2</b>	<b>Hazards Identification</b>
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<b>Appearance</b>	Clear to yellow liquid.
<b>Odor</b>	Mild
<b>Principal Hazards</b>	<ul style="list-style-type: none"> <li>This material has no known health hazards.</li> </ul>

See Section 11 for complete health hazard information.

<b>3</b>	<b>Composition/Information on Ingredients</b>
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<b>Hazardous Ingredients</b>	This material has no known hazards under applicable laws.
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<b>4</b>	<b>First Aid Measures</b>
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<b>Eyes</b>	Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
<b>Skin</b>	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
<b>Inhalation</b>	Remove exposed person to fresh air if adverse effects are observed.
<b>Oral</b>	DO NOT INDUCE VOMITING. Get immediate medical attention. Call a poison center or doctor if exposed or you feel unwell.
<b>Additional Information</b>	Note to physician: Treat symptomatically.

<b>5</b>	<b>Fire Fighting Measures</b>
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<b>Flash Point</b>	≥ 218 °C, 424.9 °F ASTMD 92 (Minimum)
<b>Extinguishing Media</b>	CO <sub>2</sub> , dry chemical, or foam. Water can be used to cool and protect exposed material.
<b>Firefighting Procedures</b>	Recommend wearing self-contained breathing apparatus.
<b>Unusual Fire &amp; Explosion Hazards</b>	See section 10 for additional information.

<b>6</b>	<b>Accidental Release Measures</b>
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<b>Spill Procedures</b>	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Take precautions to avoid release to the environment. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry
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into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

7	<b>Handling and Storage</b>
Pumping Temperature	Not determined.
Maximum Handling Temperature	Not determined.
Handling Procedures	Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
Maximum Storage Temperature	Not determined.
Storage Procedures	Take precautions to avoid release to the environment. See section 10 for incompatible materials.
Maximum Loading Temperature	Not determined.
8	<b>Exposure Controls/Personal Protection</b>
Exposure Limits	None established
Other Exposure Limits	None known.
Engineering Controls	Use with adequate ventilation.
Gloves Procedures	Use nitrile or neoprene gloves.
Eye Protection	Safety Glasses.
Respiratory Protection	Use NIOSH/MSHA approved respirator with a combination organic vapor and high efficiency filter cartridge if 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.
Clothing Recommendation	Long sleeve shirt is recommended. Launder contaminated clothing before reuse.
9	<b>Physical and Chemical Properties</b>
Flash Point	≥ 218 °C, 424.9 °F ASTMD 92 (Minimum)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Explosion Data	Material does not have explosive properties.
Vapor Pressure	Not determined.
pH	Not determined.
Specific Gravity	0.98 (20 °C)
Bulk Density	8.21 Lb/gal, 0.98 Kg/L
Water Solubility	Slightly soluble.
Percent Solid	Not determined.
Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Mild
Appearance	Clear to yellow liquid.
Viscosity	61.5 Centistokes (40 °C) 10.8 Centistokes (100 °C)
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	Not determined.
Melting / Freezing Point	Not determined.
<i>The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.</i>	
10	<b>Stability and Reactivity</b>
Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Strong oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
Conditions to Avoid	Not determined.

<b>11</b>	<b>Toxicological Information</b>
– ACUTE EXPOSURE –	
<b>Eye Irritation</b>	Not expected to cause eye irritation. Based on data from components or similar materials.
<b>Skin Irritation</b>	Not expected to be a primary skin irritant. Based on data from components or similar materials.
<b>Respiratory Irritation</b>	Overexposure to thermal decomposition products produced by high processing temperatures may be irritating to the respiratory tract.
<b>Dermal Toxicity</b>	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
<b>Inhalation Toxicity</b>	No data available to indicate product or components may be a toxic inhalation hazard.
<b>Oral Toxicity</b>	The LD50 in rats is 2000 – 5000 mg/Kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.
<b>Dermal Sensitization</b>	No data available to indicate product or components may be a skin sensitizer.
<b>Inhalation Sensitization</b>	No data available to indicate product or components may be respiratory sensitizers.
– CHRONIC EXPOSURE –	
<b>Chronic Toxicity</b>	No data available to indicate product or components present at greater than 1% are chronic health hazards.
<b>Carcinogenicity</b>	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
<b>Mutagenicity</b>	N-phenyl-1-naphthylamine is not mutagenic in most mutagenicity studies but did induce a slight increase in unscheduled DNA synthesis in human cells and a significant increase in sister chromatid exchange rates after incubation in rat liver S9 fraction.
<b>Reproductive Toxicity</b>	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
<b>Teratogenicity</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
– ADDITIONAL INFORMATION –	
<b>Other</b>	No other health hazards known.

<b>12</b>	<b>Ecological Information</b>
– ENVIRONMENTAL TOXICITY –	
<b>Freshwater Fish Toxicity</b>	The acute LC50 is 10 - 100 mg/L based on component data.
<b>Freshwater Invertebrates Toxicity</b>	The acute EC50 is 10 - 100 mg/L based on component data. Chronic effects expected at 1 - 10 mg/L based on component data.
<b>Algal Inhibition</b>	The acute EC50 is 10 - 100 mg/L based on component data.
<b>Saltwater Fish Toxicity</b>	Not determined.
<b>Saltwater Invertebrates Toxicity</b>	Not determined.
<b>Bacteria Toxicity</b>	Not determined.
<b>Miscellaneous Toxicity</b>	Not determined.
– ENVIRONMENTAL FATE –	
<b>Biodegradation</b>	At least 75% of the components in this product show rapid biodegradation based on OECD 301-type test data.
<b>Bioaccumulation</b>	Less than 1.0% of the components potentially bioconcentrate, based on octanol/water coefficients.
<b>Soil Mobility</b>	Not determined.

<b>13</b>	<b>Disposal Considerations</b>
<b>Waste Disposal</b>	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

<b>14</b>	<b>Transport Information</b>
<b>ICAO/IATA I</b>	Not regulated.
<b>ICAO/IATA II</b>	Not regulated.
<b>IMDG</b>	Not regulated.
<b>IMDG EMS Fire</b>	Not applicable.
<b>IMDG EMS Spill</b>	Not applicable.
<b>IMDG MFAG</b>	Not applicable.
<b>MARPOL Annex II</b>	Not determined.
<b>USCG Compatibility</b>	Not determined.
<b>U.S. DOT Bulk</b>	Not regulated.
<b>DOT NAERG</b>	Not applicable.
<b>U.S. DOT (Intermediate)</b>	Not regulated.
<b>U.S. DOT Intermediate NAERG</b>	Not applicable.
<b>U.S. DOT Non-Bulk</b>	Not regulated.

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U.S. DOT Non-Bulk NAERG Not applicable.  
 Canada Not regulated.  
 Mexico Not regulated.  
 Bulk Quantity 85000 KG, 187391 lbs.  
 Intermediate Quantity 11000 KG, 24251 lbs.  
 Non-Bulk Quantity 400 KG, 882 lbs.

*Review classification requirements before shipping materials at elevated temperatures.*

15	<b>Regulatory Information</b>
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-- Global Chemical Inventories --

USA All components of this material are on the US TSCA Inventory or are exempt.

Other TSCA Reg. None known.

EU All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.

Japan All components are in compliance with the Chemical Substances Control Law of Japan.

Australia All components are in compliance with chemical notification requirements in Australia.

New Zealand May require notification before sale under New Zealand regulations.

Canada All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

Switzerland All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Korea All components are in compliance in Korea.

Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

China All components of this product are listed on the Inventory of Existing Chemical Substances in China.

Taiwan May require notification before sale in Taiwan.

-- Other U.S. Federal Regulations --

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

SARA Section 313 This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SARA 311 Classifications

Acute Hazard	No
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

CERCLA Hazardous Substances None known.

-- State Regulations --

Cal. Prop. 65 This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: < 0.01 ppm 2-Naphthylamine, CAS no. 91-59-8 < 0.5 ppm 1-Naphthylamine, CAS no. 134-32-7 < 0.5 ppm Aniline, CAS no. 62-53-3

-- Product Registrations --

U.S. Fuel Registration Not applicable.  
 Finnish Registration Number Not Registered  
 Swedish Registration Number Not Registered  
 Norwegian Registration Number Not Registered  
 Danish Registration Number Not Registered  
 Swiss Registration Number Not Registered  
 Italian Registration Number Not Registered

-- Other / International --

Miscellaneous Regulatory Information Not determined.

16	<b>Other Information</b>
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US NFPA Codes

Health	Fire	Reactivity	Special
1	1	0	N/E

(N/E) - None established

HMIS Codes

Health	Fire	Reactivity
1	1	0

- This material has no known health hazards.

Revision Indicators

Section: 1 Product type.	Changed: 25 September 2012
Section: 2 Principal hazards.	Changed: 25 September 2012
Section: 3 Hazardous ingredients.	Changed: 25 September 2012
Section: 4 Eyes first aid.	Changed: 25 September 2012
Section: 4 Oral first aid.	Changed: 25 September 2012
Section: 5 Flash point.	Changed: 25 May 2012
Section: 5 Special firefighting procedures.	Changed: 25 September 2012
Section: 7 Handling procedures.	Changed: 25 September 2012
Section: 8 Glove protection.	Changed: 25 September 2012
Section: 8 Hazardous ingredients.	Changed: 25 September 2012
Section: 8 Ventilation procedures.	Changed: 25 September 2012
Section: 9 Flash point.	Changed: 25 May 2012
Section: 11 Eye irritation.	Changed: 25 September 2012
Section: 11 Mutagenicity.	Changed: 25 September 2012
Section: 11 Oral toxicity.	Changed: 25 September 2012
Section: 11 Respiratory irritation.	Changed: 25 May 2012
Section: 11 Skin irritation.	Changed: 25 September 2012
Section: 12 Bioconcentration	Changed: 25 September 2012
Section: 12 Accumulation.	Changed: 25 September 2012
Section: 12 Freshwater invertebrate toxicity.	Changed: 19 November 2011
Section: 16 HMIS codes.	Changed: 25 September 2012
Section: 16 Principal hazards.	Changed: 25 September 2012

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