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Prepared according to 29CFR 1910.1200.

1	Chemical Product and Company Identification
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Product Trade Name	VILTER FL-150
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic Chemical Name	Mixture.
Product Type	Refrigeration Lubricants.
Preparation/Revision Date	12 November 2012
Transportation Emergency Phone No.	FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
MSDS No.	12236941-2816011-712211-102103

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

See Section 11 for complete health hazard information.

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

5	Fire Fighting Measures
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Flash Point	≥ 290 °C, 554 °F COC (Minimum)
Extinguishing Media	CO ₂ , dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures	Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion Hazards	See section 10 for additional information.

6	Accidental Release Measures
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Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection 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.
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7	Handling and Storage
Pumping Temperature	Not determined.
Maximum Handling Temperature	Not determined.
Handling Procedures	Keep containers closed when not in use. 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	See section 10 for incompatible materials.
Maximum Loading Temperature	Not determined.
8	Exposure Controls/Personal Protection
Exposure Limits	None established
Other Exposure Limits	None known.
Engineering Controls	Use with adequate ventilation.
Gloves Procedures	Neoprene.
Eye Protection	Safety Glasses.
Respiratory Protection	Use NIOSH/MSHA approved respirator with an organic vapor cartridge if 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	Physical and Chemical Properties
Flash Point	≥ 290 °C, 554 °F COC (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	1.01 (15.6 °C)
Bulk Density	8.41 Lb/gal, 1.01 Kg/L
Water Solubility	Insoluble.
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	168 Centistokes (40 °C) 20.2 Centistokes (100 °C)
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	-43 °C, -45 °F
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	Stability and Reactivity
Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Strong acids. Strong bases.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
Conditions to Avoid	Not determined.
11	Toxicological Information

VILTER FL-150

Eye Irritation	Not expected to cause eye irritation. Based on data from components or similar materials.
Skin Irritation	Not expected to be a primary skin irritant. Based on data from components or similar materials.
Respiratory Irritation	Breathing of oil mist may cause respiratory irritation.
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.
Oral Toxicity	The LD50 in rats is > 5000 mg/Kg. Based on data from components or similar materials. Ingestion of this material may cause nausea and diarrhea.
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 respiratory sensitizers.

– 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 product or any components contained at greater than 0.1% may cause birth defects.

– ADDITIONAL INFORMATION –

Other	No other health hazards known.
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12	Ecological Information
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– ENVIRONMENTAL TOXICITY –

Freshwater Fish Toxicity	The acute LC50 is 100 - 1000 mg/L based on component data.
Freshwater Invertebrates Toxicity	The acute EC50 is > 1000 mg/L based on component data.
Algal Inhibition	The acute EC50 is > 1000 mg/L based on component data.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	The acute EC50 is 100 - 1000 ppm based on component data.
Miscellaneous Toxicity	Not determined.

– ENVIRONMENTAL FATE –

Biodegradation	At least 75% of the components in this product show rapid biodegradation based on OECD 301-type test data.
Bioaccumulation	25% or greater of the components display no potential to bioconcentrate.
Soil Mobility	Not determined.

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

15	Regulatory Information								
– 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	This product requires notification in Japan.								
Australia	This product requires notification before sale in Australia.								
New Zealand	All components are in compliance with chemical notification requirements in New Zealand.								
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	All components of this product are listed on the Taiwan inventory.								
– 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	<table> <tr> <td>Acute Hazard</td><td>No</td></tr> <tr> <td>Chronic Hazard</td><td>No</td></tr> <tr> <td>Fire Hazard</td><td>No</td></tr> <tr> <td>Reactivity Hazard</td><td>No</td></tr> </table>	Acute Hazard	No	Chronic Hazard	No	Fire Hazard	No	Reactivity Hazard	No
Acute Hazard	No								
Chronic Hazard	No								
Fire Hazard	No								
Reactivity Hazard	No								
CERCLA Hazardous Substances	None known.								
– State Regulations –									
Cal. Prop. 65	This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.								
– 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	Other Information											
US NFPA Codes	<table><tr><td>Health</td><td>Fire</td><td>Reactivity</td><td>Special</td></tr><tr><td>0</td><td>1</td><td>0</td><td>N/E</td></tr></table>				Health	Fire	Reactivity	Special	0	1	0	N/E
	Health	Fire	Reactivity	Special								
0	1	0	N/E									
	(N/E) - None established											
HMIS Codes	<table><tr><td>Health</td><td>Fire</td><td>Reactivity</td></tr><tr><td>0</td><td>1</td><td>0</td></tr></table>				Health	Fire	Reactivity	0	1	0		
	Health	Fire	Reactivity									
0	1	0										
Precautionary Labels	<ul style="list-style-type: none">• This material has no known health hazards.											
Revision Indicators	<div><div>Section: 1 Product type.</div><div>Section: 5 Flash point.</div><div>Section: 9 Flash point.</div><div>Section: 12 Bacteria toxicity.</div></div> <div><div>Changed: 26 September 2012</div><div>Changed: 25 May 2012</div><div>Changed: 25 May 2012</div><div>Changed: 26 September 2012</div></div>											

Section: 12 Accumulation.	Changed: 26 September 2012
Section: 12 Freshwater fish toxicity.	Changed: 26 September 2012
Section: 15 Australia.	Changed: 12 November 2012
Section: 15 Canada.	Changed: 12 November 2012
Section: 15 China	Changed: 12 November 2012
Section: 15 Japan meti.	Changed: 12 November 2012
Section: 15 Korea.	Changed: 12 November 2012
Section: 15 New Zealand	Changed: 12 November 2012

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