



PO Box 8604 Cudahy, WI 53110

T (414) 744-0111 F (414) 744-3483

Prepared according to 29CFR 1910.1200.

1 Chemical Product and Company Identification

Product Trade Name VILTER FL-150

CAS Number Not applicable for mixtures.

Synonyms None.

Generic Chemical Name Mixture.

Product TypeRefrigeration Lubricants.Preparation/Revision Date12 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

spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for

U.S.)

MSDS No. 12236941-2816011-712211-102103

2 Hazards Identification

Appearance Clear to yellow liquid.

Odor Mild

Principal Hazards

• This material has no known health hazards.

See Section 11 for complete health hazard information.

| Composition/Information on Ingredients | | | |
|---|--|--|--|
| This material has no known hazards under applicable laws. | | | |
| First Aid Measures | | | |
| Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists. | | | |
| Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse. | | | |
| Remove exposed person to fresh air if adverse effects are observed. | | | |
| DO NOT INDUCE VOMITING. Get immediate medical attention. | | | |
| Note to physician: Treat symptomatically. | | | |
| Fire Fighting Measures | | | |
| >= 290 °C, 554 °F COC (Minimum) | | | |
| CO2, dry chemical, or foam. Water can be used to cool and protect exposed material. | | | |
| Recommend wearing self-contained breathing apparatus. Water may cause splattering. | | | |
| See section 10 for additional information. | | | |
| Accidental Release Measures | | | |
| | | | |

recycle and/or disposal. Residual liquid can be absorbed on inert material.

VILTER FL-150

| breathing apparatus for entry into confined space, for other poorty ventilated aireas and for large spill clean-up sites. Long sleeve shirt is recommended. Launder contaminated clothing before reuse. Plash Point Depart Hammable Limit Not determined. Not determined. Not determined. Explosion Data Material does not have explosive properties. Not determined. Plash Point Not determined. Not determined. Specific Gravity 1.01 (15.6°C) Bulk Density 8.41 Lb/gal, 1.01 Kg/L Insulated. Not determined. Not determined. Not determined. Not determined. Percent Solid Not determined. Not determined. Not determined. Not determined. Not determined. Vapor Pensity Not determined. Vapor Density Not determined. Vapor Density Not determined. Vapor Density Not determined. Clear to yellow liquid. Viscosity 1.68 Centistokes (40°C) 2.0.2 Centistokes (40°C) 2.0.2 Centistokes (40°C) 2.0.2 Centistokes (40°C) And temperature Melting / Freezing Point Not determined. Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Not determined. Not determined. Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldelrydes and other products of incomplete combustion. | 7 | Handling and Storage | | | |
|--|--|--|--|--|--|
| Maximum Faurilling Temperature Hundling Procedures Exposition in the Company of t | Pumning Temperature | Not determined | | | |
| Handling Procedures Rep. containers closed when no in ins. Whish throughly after handling, Launder contaminated clothing before reasons accordance with load, regional, makinal and international regulations. Maximum Storage Temperature Not determined | AND THE PERSON NAMED OF TH | | | | |
| Empty container contains product residue which may ochibit hazarck of product. Dispose of packaging or containers accordance with Local, regional, national and international regulations. Not determined. Sees escion 10 for incompatible materials. Not determined. Sees escion 10 for incompatible materials. Not determined. Exposure Limits None catabilished None Limits None catabilished None Income. Exposure Limits Ditter Exposure Limits None catabilished None Income. Exposure Limits None catabilished None Income. Exposure Limits None Exposure Limits None Service Sees and See | | | | | |
| Storage Procedures Se section 10 for incompatible materials. Not determined. Seposure Limits None established Other Exposure Limits None bound in the stability of the sta | Tanding Procedures | Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers | | | |
| Exposure Limits | Maximum Storage Temperature | Not determined. | | | |
| Same | Storage Procedures | See section 10 for incompatible materials. | | | |
| Exposure Limits Other Exposure Limits Other Exposure Limits Colores Procedures Eye Protection September Safety Glasses Eye Protection Use with adequate ventilation. September Safety Glasses Eye Protection Use With adequate ventilation. September Safety Glasses Use NICSH/MSHA approved respirator with an organic vapor cartridge if exposure limit is exceeded. Use self-contreating apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Clothing Recommendation 9 | Maximum Loading Temperature | | | | |
| Other Exposure Limits None known. Gloves Procedures Expe Protection Suffey Glasses. Respiratory Protection Suffey Glasses. Respiratory Protection Use Nife MSHA approved respirator with an organic vapor cartridge if exposure limit is exceeded. Use self-core breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Clothing Recommendation Use NiGSHAMSHA approved respirator with an organic vapor cartridge if exposure limit is exceeded. Use self-core breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Clothing Recommendation Use Nicolated Properties Plash Point = 290 °C, 554 °F COC (Minimum) Dipper Planumable Limit Not determined. | 8 | Exposure Controls/Personal Protection | | | |
| Engineering Controls Cloves Procedures Neoprene. Sufety Ghisses. Respiratory Protection Sufety Ghisses. Respiratory Protection Use NIOSH/MSHA approved respirator with an organic vapor cartridge if exposure limit is exceeded. Use self-core breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Clothing Recommendation Pressure Plash Point Support Flammable Limit Not determined. Not determined. Not determined. Not determined. Support Pressure Not determined. Not determined. Not determined. Specific Gravity 1.01 (15.6 °C) Bulk Density State Solidity Percent Solid Percent Volattle Volattle Organic Compound Not determined. Not determin | Exposure Limits | None established | | | |
| September Sept | Other Exposure Limits | None known. | | | |
| Specific Cravity Specific Cr | Engineering Controls | Use with adequate ventilation. | | | |
| Respiratory Protection Use NIOSH/MSHA approved respirator with an organic vapor catrifaçe if exposure limit is exceeded. Use self-cont breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Long sleeves thirt is recommended. Launder contaminated clothing before reuse. Physical and Chemical Properties Plash Point > 290 °C, 554 °F COC (Minimum) Not determined. Lower Flaumable Limit Not determined. Not determined. Autologation Point Explosion Data Material does not have explosive properties. Not determined. Per Supposion Data Material does not have explosive properties. Not determined. Specific Gravity Stability Stability Stability Not determined. Not determined | Gloves Procedures | Neoprene. | | | |
| breathing apparatus for entry into confined space, for other poorty ventilated areas and for large spill clean-up sites. Long sleeve shirt is recommended. Launder contaminated clothing before reuse. Plash Point Dipper Flammable Limit Not determined. Not determined. Material does not have explosive properties. Not determined. Explosion Data Material does not have explosive properties. Not determined. Pli Not determined. Specific Gravity 1.01 (15.6 °C) Bulk Density 8.41 Lb/gal, 1.01 Kg/L Insoluble. Percent Solid Not determined. Vapor Density Not determined. Not determined. Vapor Density Not determined. Not determined. Not determined. Not determined. Other Mild Appearance Clear to yellow liquid. Clear to yellow liquid. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (40 °C) Not determined. | Eye Protection | Safety Glasses. | | | |
| Physical and Chemical Properties | Respiratory Protection | Use NIOSH/MSHA approved respirator with an organic vapor cartridge if exposure limit is exceeded. Use self-contained | | | |
| Plash Point >= 290 °C, 554 °F COC (Minimum) | Clothing Recommendation | Long sleeve shirt is recommended. Launder contaminated clothing before reuse. | | | |
| Upper Flammable Limit Lower Flammable Limit Not determined. Autolightifun Point Not determined. Explosion Data Material does not have explosive properties. Vapor Pressure Not determined. Brecific Gravity 1.01 (15.6 °C) Bulk Density 8.41 Lb'gal, 1.01 Kg/L Water Solubility Insoluble. Percent Solid Not determined. Vapor Density Not determined. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Not determined. Incompatibility Strang acids. Strong bases. Polymerization Will not occur. Thermal Decomposition incomplete combustion. | 9 | Physical and Chemical Properties | | | |
| Lower Flammable Limit Autolguition Point Explosion Data Material does not have explosive properties. Vapor Pressure PM Not determined. Specific Gravity 1.01 (15.6 °C) Bulk Density Water Solubility Insoluble. Percent Solid Percent Volatile Volatile Organic Compound Vapor Density Not determined. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (100 °C) More Point Temperature A3 °C, -45 °F Melting / Freezing Point Not determined. Values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Polymerization Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | Flash Point | >= 290 °C, 554 °F COC (Minimum) | | | |
| Not determined. Autolguition Point Explosion Data Material does not have explosive properties. Vapor Pressure Not determined. Specific Gravity 1.01 (15.6 °C) Bulk Density Water Solubility Insoluble. Percent Solid Percent Solid Vapor Density Not determined. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Boiling Point Not determined. Not determined. Not determined. Not determined. Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Polymerization Will not occur. Will not occur. Thermal Decomposition Snoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | Upper Flammable Limit | 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 Insoluble. Percent Solid Not determined. Percent Solid Not determined. Volatile Organic Compound Not determined. Vapor Density Not determined. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Not determined. Boiling Point Not determined. Welting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Decomposition Temperature Not determined. Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | 2 TOT 150 150 150 150 150 150 150 150 150 150 | 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 Insoluble. Percent Solid Not determined. Percent Solid Not determined. Volatile Organic Compound Not determined. Vapor Density Not determined. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Not determined. Boiling Point Not determined. Welting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Decomposition Temperature Not determined. Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | | Not determined. | | | |
| Vapor Pressure Not determined. pH Not determined. Specific Gravity 1.01 (15.6 °C) Bulk Density 841 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. Codor 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. In above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability and Reactivity Stability Material is normally stable at moderately elevated temperatures and pressures. Not determined. Incompatibility Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes | | | | | |
| Specific Gravity 1.01 (1.5.6 °C) Specific Gravity 1.01 (1.5.6 °C) Sulk Density Stability Insoluble. Percent Solid Not determined. Percent Volatile Percent Volatile Not determined. Volatile Organic Compound Not determined. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (40 °C) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. Stability Stability Material is normally stable at moderately elevated temperatures and pressures. Not determined. Stability Stability Material is normally stable at moderately elevated temperatures and pressures in companies of incomplete combustion. | R . | | | | |
| Specific Gravity Bulk Density Bulk Density Stability Bush Density Bush Density Bush Density Bush Desity Bush Desity Bush Desity Brecent Solid Not determined. Not determined. Not determined. Not determined. Vapor Density Not determined. Vapor Density Not determined. Vapor Density Not determined. Vapor Density Not determined. Odor Mild Appearance Clear to yellow liquid. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Boiling Point Not determined. Pour Point Temperature 43 °C, -45 °F Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Not determined. From a cids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | | | | | |
| Bulk Density Water Solubility Insoluble. Percent Solid Not determined. Volatile Organic Compound Not determined. Vapor Density Not determined. Vapor anice Odor Mild Appearance Clear to yellow liquid. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Not determined. Not determined. Not determined. Pour Point Temperature 43 °C, -45 °F Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Decomposition Temperature Not determined. Viln not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | San arrange arrange arrange | | | | |
| Water Solubility Percent Solid Percent Solid Not determined. Porcent Volatile Volatile Organic Compound Votatile Organic Compound Not determined. Volatile Organic Compound Votatile Not determined. Evapor atton Rate Not determined. Ottor Mild Appearance Clear to yellow liquid. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Boiling Point Not determined. Pour Point Temperature -43 °C, -45 °F Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Decomposition Temperature Not determined. Waterial is normally stable at moderately elevated temperatures and pressures. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | NAV 900 ANTO 2000 | | | | |
| 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. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 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. | | | | | |
| Percent Volatile Volatile Organic Compound Not determined. Vapor Density Not determined. Vapor Density Not determined. Odor Mild Appearance Clear to yellow liquid. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Boiling Point Not determined. Pour Point Temperature 43 °C, -45 °F Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability Material is normally stable at moderately elevated temperatures and pressures. Decomposition Temperature Not determined. Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | Control of the Contro | | | | |
| 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. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 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. | | | | | |
| Evaporation Rate 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. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability and Reactivity Stability Material is normally stable at moderately elevated temperatures and pressures. 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. | A RECORDERATE DESCRIPTION OF CONTRACT OF CHARACTERS OF CONTRACT OF | | | | |
| 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. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. Stability Material is normally stable at moderately elevated temperatures and pressures. Decomposition Temper ature 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. | • | | | | |
| Appearance Clear to yellow liquid. Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Not determined. Not determined. Pour Point Temperature -43 °C, -45 °F Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability and Reactivity Material is normally stable at moderately elevated temperatures and pressures. Decomposition Temperature Not determined. Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | (. S t) | | | | |
| Viscosity 168 Centistokes (40 °C) 20.2 Centistokes (100 °C) Odor Threshold Not determined. Not determined. Pour Point Temperature -43 °C, -45 °F Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability and Reactivity Material is normally stable at moderately elevated temperatures and pressures. Not determined. Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Temperature on the composition of the products of incomplete combustion. | | | | | |
| 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. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 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. | statistic resident | en entre train Thomas and the formation of the company of the comp | | | |
| Not determined. Not determined. Pour Point Temperature Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. Stability and Reactivity Stability Material is normally stable at moderately elevated temperatures and pressures. Not determined. Incompatibility Strong acids. Strong bases. Polymerization Will not occur. Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | Viscosity | | | | |
| Boiling Point Not determined. Pour Point Temperature -43 °C, -45 °F Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 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. | Odor Threshold | | | | |
| Pour Point Temperature -43 °C, -45 °F Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 10 Stability and Reactivity Stability Material is normally stable at moderately elevated temperatures and pressures. 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. | | | | | |
| Melting / Freezing Point Not determined. The above data are typical values and do not constitute a specification. Vapor pressure data are calculate unless otherwise noted. 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. | | | | | |
| unless otherwise noted. 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. | | | | | |
| Stability Material is normally stable at moderately elevated temperatures and pressures. 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. | | The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted. | | | |
| Decomposition Temperature Not determined. Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | 10 | Stability and Reactivity | | | |
| Decomposition Temperature Not determined. Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | Stability | Material is normally stable at moderately elevated temperatures and pressures | | | |
| Incompatibility Strong acids. Strong bases. Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | rayona dan me | ACCORDANCE OF ANALYSIS OF ANALYSIS OF ANALYSIS OF ANALYSIS OF ANALYSIS OF A STANDARD OF A STANDARD OF ANALYSIS OF | | | |
| Polymerization Will not occur. Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | | | | | |
| Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. | | AND CONTROL TO THE CONTROL OF THE CO | | | |
| | ; 27 , 0 | | | | |
| | - | | | | |
| 11 Toxicological Information | 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.

The LD50 in rats is > 5000 mg/Kg. Based on data from components or similar materials. Ingestion of this material may **Oral Toxicity**

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. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Mutagenicity Reproductive Toxicity

No data available to indicate either product or components present at greater than 0.1% that may cause reproductive

toxicity

Ter atogenicity 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.

12 **Ecological Information**

- 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**

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.

14 Transport Information

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. Not applicable. U.S. DOT Intermediate NAERG U.S. DOT Non-Bulk Not regulated. U.S. DOT Non-Bulk NAERG Not applicable.

Canada Not regulated. Mexico Not regulated. 85000 KG, 187391 lbs. **Bulk Quantity** Intermediate Quantity 11000 KG, 24251 lbs. Non-Bulk Quantity 400 KG, 882 lbs.

Review classification requirements before shipping materials at elevated temperatures.

| Two reads | The state of the s | - 4 |
|-----------|--|-----|
| 15 | Regulatory Information | |
| 13 | Regulatory into matton | |
| | | |

- 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.

Acute Hazard

None known.

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.

Fire Hazard

| Truck Tiazara | 110 |
|-------------------|-----|
| Chronic Hazard | No |
| Fire Hazard | No |
| Reactivity Hazard | No |

CERCLA Hazardous Substances

SARA 311 Classifications

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
Not Registered

- Other / International --

Miscellaneous Regulatory

Information

Not determined.

| 16 | Other Information |
|----|-------------------|
| 10 | Outer Information |

| US NFPA Codes | Health | Fire | Reactivity | Special |
|---------------|--------|------|------------|---------|
| | 0 | 1 1 | 0 | N/F |

(N/E) - None established

 HMIS Codes
 Health
 Fire
 Reactivity

 0
 1
 0

Precautionary Labels

. This material has no known health hazards.

Revision Indicators Section: 1 Product type. Changed: 26 September 2012

Section: 5 Flash point.Changed: 25 May 2012Section: 9 Flash point.Changed: 25 May 2012Section: 12 Bacteria toxicity.Changed: 26 September 2012

VILTER FL-150

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

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.