



Prepared according to Global Harmonized System (GHS) standards.

|   |                                  |
|---|----------------------------------|
| 1 | Substance/Product Identification |
|---|----------------------------------|

*The Lubrizol Corporation  
29400 Lakeland Boulevard  
Wickliffe, Ohio 44092  
Tel: (440) 943-4200*

|                                    |                                                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Product Trade Name                 | FZ1401AX                                                                                                  |
| CAS Number                         | Not applicable for mixtures.                                                                              |
| Synonyms                           | None.                                                                                                     |
| Generic Chemical Name              | Mixture.                                                                                                  |
| Recommended Use                    | Multipurpose.                                                                                             |
| Restrictions on use                | Not determined.                                                                                           |
| Created Date                       | 02 November 2011                                                                                          |
| Preparation/Revision Date          | 22 August 2013                                                                                            |
| 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.                           | 23460640-2523328-3029331-102103                                                                           |

|   |                        |
|---|------------------------|
| 2 | Hazards Identification |
|---|------------------------|

|                    |                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------|
| Appearance         | Amber colored liquid.                                                                            |
| Odor               | Mild                                                                                             |
| Classification     | Hazardous to the aquatic environment (acute hazard) category 3                                   |
| Target Organs      | Not determined.                                                                                  |
| Signal Word        | Not determined.                                                                                  |
| Hazard statement   | Harmful to aquatic life.                                                                         |
| Other Hazards      | None identified.                                                                                 |
| Precaution(s)      | Avoid release to the environment.                                                                |
| Storage Procedures | Store away from oxidizers.                                                                       |
| Disposal           | All disposal practices must be in accordance with local, national and international regulations. |

See Section 11 for complete health hazard information.

|   |                                        |
|---|----------------------------------------|
| 3 | Composition/Information on Ingredients |
|---|----------------------------------------|

Hazardous Ingredients

| Comp                    | CAS No.       | Percentage (by wt.)     | Carcinogen |
|-------------------------|---------------|-------------------------|------------|
| Zinc alkylthiophosphate | 84605-29-8    | From 0.5 to 1.5 percent | N/E        |
| Alkylated phenol        | Confidential. | From 0.1 to 0.9 percent | N/E        |

|   |                    |
|---|--------------------|
| 4 | First Aid Measures |
|---|--------------------|

|                                                  |                                                                                                                                                                                                                          |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes                                             | Rinse cautiously with water for 20 minutes or until chemical is removed. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical attention.                                            |
| Skin                                             | Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.                                                                        |
| Inhalation                                       | Remove exposed person to fresh air if adverse effects are observed. If experiencing respiratory symptoms call a poison center or doctor.                                                                                 |
| Ingestion                                        | DO NOT INDUCE VOMITING. Get immediate medical attention.                                                                                                                                                                 |
| Advice for the protection of first-aid providers | When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. After providing first aid wash your exposed skin with soap and water. |
| Additional Information                           | Note to physician: Treat symptomatically.                                                                                                                                                                                |

| 5                                           | Fire Fighting Measures                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash Point</b>                          | 197 °C, 386.6 °F PMCC (Typical)                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Extinguishing Media</b>                  | CO2, dry chemical, foam, water spray, water fog. Water can be used to cool and protect exposed material.                                                                                                                                                                                                                                                                                                        |
| <b>Unsuitable Extinguishing Media</b>       | Not determined.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Firefighting Procedures</b>              | Recommend wearing self-contained breathing apparatus. Do not direct a solid stream of water on spilled material. Use flooding amounts of water as a fog. Use water to cool containers exposed to fire. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. Do not release chemically contaminated water into drains, soil or surface water. |
| <b>Unusual Fire &amp; Explosion Hazards</b> | Elevated temperatures can lead to the formation of irritating fumes and vapors. Container may rupture on heating. DO NOT USE a solid stream of water. Burning may produce irritating, toxic and obnoxious fumes. See section 10 for additional information.                                                                                                                                                     |

| 6                                                                         | Accidental Release Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precaution, protective equipment and emergency procedures</b> | Only trained personnel should be permitted in area. Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing. Ventilate area if spilled in a confined space or other poorly ventilated area. Material on floor may be slippery.                                                                                                                                                                                                                                                 |
| <b>Environmental precaution and protective procedures.</b>                | Material will float on water. Take precautions to avoid release to the environment. Do not flush into surface water, sanitary sewer or ground water system.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Methods for clean-up and removal</b>                                   | Shut off leak if without risk. Use non-sparking tools. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Small spills: contain spilled material. Transfer to secure containers. Where necessary collect using absorbent media. Larger spills: stop spill and dike area to prevent spreading, pump liquid to salvage tank. remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers. |

| 7                                   | Handling and Storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pumping Temperature</b>          | Ambient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Maximum Handling Temperature</b> | 70 °C, 158 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Handling Procedures</b>          | Use with adequate ventilation. 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. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Avoid overheating. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations. |
| <b>Maximum Storage Temperature</b>  | 45 °C, 113 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Procedures</b>           | Keep material away from heat, sparks, pilot lights, static electricity and open flame. Store separately from oxidizers. Take precautions to avoid release to the environment. Store in a cool, dry, well-ventilated area. Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used. Store separately from incompatible materials. Do not store in open, unlabeled or mislabeled containers. See section 10 for incompatible materials.                                                                                |
| <b>Maximum Loading Temperature</b>  | 70 °C, 158 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| 8                            | Exposure Controls/Personal Protection                                                                                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Limits</b>       | <p><b>EU</b><br/>Not applicable.</p> <p><b>UK</b><br/>Not applicable.</p> <p><b>Ireland</b><br/>Not applicable.</p> <p><b>India</b><br/>Not applicable.</p> <p><b>Cyprus</b><br/>Not applicable.</p>                                                       |
| <b>Other Exposure Limits</b> | Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter.                                                                                                          |
| <b>Engineering Controls</b>  | Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. |

**Personal Protective Equipment****Respiratory Protection**

Use half mask 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.

**Eye Protection**

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

**Gloves Procedures**

Nitrile. Consult clothing/glove manufacturer to determine appropriate type of glove for given situation. Gloves should always be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

**Clothing Recommendation**

Long sleeve shirt is recommended. When working with heated material, wear heat protective clothing. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

**Hygiene Measures**

Wash thoroughly after handling this product.

|          |                                         |
|----------|-----------------------------------------|
| <b>9</b> | <b>Physical and Chemical Properties</b> |
|----------|-----------------------------------------|

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| <b>Flash Point</b>               | 197 °C, 386.6 °F PMCC (Typical)              |
| <b>Upper Flammable Limit</b>     | Not determined.                              |
| <b>Lower Flammable Limit</b>     | Not determined.                              |
| <b>Autoignition Point</b>        | Not determined.                              |
| <b>Decomposition Temperature</b> | Not determined.                              |
| <b>Explosion Data</b>            | Material does not have explosive properties. |
| <b>Vapor Pressure</b>            | Not determined.                              |
| <b>pH</b>                        | Not determined.                              |
| <b>Specific Gravity</b>          | 0.88 (15.6 °C)                               |
| <b>Bulk Density</b>              | 7.36 Lb/gal, 0.88 Kg/L                       |
| <b>Water Solubility</b>          | Insoluble.                                   |
| <b>Percent Solid</b>             | Not determined.                              |
| <b>Percent Volatile</b>          | Not determined.                              |
| <b>Volatile Organic Compound</b> | Not determined.                              |
| <b>Vapor Density</b>             | Not determined.                              |
| <b>Evaporation Rate</b>          | Not determined.                              |
| <b>Water/Octanol Coefficient</b> | Not determined.                              |
| <b>Odor</b>                      | Mild                                         |
| <b>Odor Threshold</b>            | Not determined.                              |
| <b>Appearance</b>                | Amber colored liquid.                        |
| <b>Viscosity</b>                 | 139 Centistokes (40 °C)                      |
| <b>Boiling Point</b>             | Not determined.                              |
| <b>Boiling Point Range</b>       | Not determined.                              |
| <b>Pour Point Temperature</b>    | -39 °C, -38 °F                               |
| <b>Melting / Freezing Point</b>  | Not determined.                              |

*The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.*

|           |                                 |
|-----------|---------------------------------|
| <b>10</b> | <b>Stability and Reactivity</b> |
|-----------|---------------------------------|

|                                  |                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>                 | Material is normally stable at room temperature and pressure. See the Handling and Storage Section for further details.                                                                  |
| <b>Decomposition Temperature</b> | Not determined.                                                                                                                                                                          |
| <b>Incompatibility</b>           | Strong acids. Oxidizing agents.                                                                                                                                                          |
| <b>Polymerization</b>            | Will not occur.                                                                                                                                                                          |
| <b>Thermal Decomposition</b>     | Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Nitrogen oxides. |
| <b>Conditions to Avoid</b>       | Do not expose to excessive heat, ignition sources, or oxidizing materials. High temperatures.                                                                                            |

|           |                                  |
|-----------|----------------------------------|
| <b>11</b> | <b>Toxicological Information</b> |
|-----------|----------------------------------|

**-- ACUTE EXPOSURE --**

|                               |                                                                                                                                                                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Irritation</b>         | Not expected to cause eye irritation. Based on data from similar materials. Vapors may cause irritation.                                                                                                                                                                                     |
| <b>Skin Irritation</b>        | Not expected to be a primary skin irritant. Based on data from similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.                                         |
| <b>Respiratory Irritation</b> | If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials. Inhalation of processing mists and vapors may be irritating to the respiratory system. |

FZ1401AX

|                                 |                                                                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dermal Toxicity</b>          | The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.                                                                  |
| <b>Inhalation Toxicity</b>      | Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-like symptoms. Avoid inhalation of mists or vapors.                      |
| <b>Oral Toxicity</b>            | The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials. Ingestion of this material may cause gastrointestinal irritation. |
| <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.                                                                       |
| <b>Aspiration Hazard</b>        | Not determined.                                                                                                                                           |

**-- 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>       | This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.          |
| <b>Mutagenicity</b>          | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                                                                                                                                          |
| <b>Reproductive Toxicity</b> | This product contains para-dodecylphenol. Rats given high, repeated daily doses of para-dodecylphenol by oral intubation experienced adverse reproductive effects. The relevance of these effects to humans is uncertain.                                 |
| <b>Teratogenicity</b>        | This product contains para-dodecylphenol. Pregnant rats given high, repeated daily doses of para-dodecylphenol by oral intubation gave birth to pups with cleft palate and skeletal malformations. The relevance of these effects to humans is uncertain. |

**-- ADDITIONAL INFORMATION --**

|              |                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other</b> | Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Persons with sensitive airways (e.g., asthmatics) may react to vapors. |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

|           |                               |
|-----------|-------------------------------|
| <b>12</b> | <b>Ecological Information</b> |
|-----------|-------------------------------|

**-- ENVIRONMENTAL TOXICITY --**

|                                          |                                                                                                                           |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Freshwater Fish Toxicity</b>          | The acute LC50 is 100 - 1000 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>                  | Not determined.                                                                                                           |
| <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 25% of the components in this product show moderate biodegradation based on OECD 301-type test data. At least 25% of the components in this product show moderate biodegradation based on OECD 302-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>Notes</b>           | None known.                                                                                                                                                                                                                 |

|           |                                |
|-----------|--------------------------------|
| <b>13</b> | <b>Disposal Considerations</b> |
|-----------|--------------------------------|

|                                             |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal Considerations</b>              | All disposal practices must be in accordance with local, regional, national and international regulations. Do not dispose in landfill.                                                                                                                                                                                                |
| <b>Contaminated Containers or Packaging</b> | Empty container retains product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international 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>DOT NAERG</b>          | Not applicable. |

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

|    |                               |
|----|-------------------------------|
| 15 | <b>Regulatory Information</b> |
|----|-------------------------------|

**-- Global Chemical Inventories --**

|                                             |                                                                                                                                                                                                                                                          |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>USA</b>                                  | All components of this material are on the US TSCA Inventory or are exempt.                                                                                                                                                                              |
| <b>Other TSCA Reg.</b>                      | None known.                                                                                                                                                                                                                                              |
| <b>EU</b>                                   | To obtain information on the REACH compliance status of this product, please visit <a href="http://Lubrizol.com/REACH">Lubrizol.com/REACH</a> , or e-mail us at <a href="mailto:REACH_MSDS_INQUIRIES@Lubrizol.com">REACH_MSDS_INQUIRIES@Lubrizol.com</a> |
| <b>Japan</b>                                | All components are in compliance with the Chemical Substances Control Law of Japan.                                                                                                                                                                      |
| <b>Australia</b>                            | All components are in compliance with chemical notification requirements in Australia.                                                                                                                                                                   |
| <b>New Zealand</b>                          | All components are in compliance with chemical notification requirements in New Zealand.                                                                                                                                                                 |
| <b>Canada</b>                               | All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.                                                                                                                         |
| <b>Switzerland</b>                          | All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.                                                                                                                                                 |
| <b>Korea</b>                                | All components are in compliance in Korea.                                                                                                                                                                                                               |
| <b>Philippines</b>                          | All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).                                                                                                                 |
| <b>China</b>                                | All components of this product are listed on the Inventory of Existing Chemical Substances in China.                                                                                                                                                     |
| <b>Taiwan</b>                               | All components of this product are listed on the Taiwan inventory.                                                                                                                                                                                       |
| <b>Miscellaneous Regulatory Information</b> | Not determined.                                                                                                                                                                                                                                          |

**-- Other U.S. Federal Regulations --**

|                                    |                                                                                                                                                                                                               |              |    |                |    |             |    |                   |    |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----|----------------|----|-------------|----|-------------------|----|
| <b>SARA Ext. Haz. Subst.</b>       | This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.                                                                                    |              |    |                |    |             |    |                   |    |
| <b>SARA Section 313</b>            | From 0.5 to 1.5 percent zinc compounds; contains 0.1% as Zn.                                                                                                                                                  |              |    |                |    |             |    |                   |    |
| <b>SARA 311 Classifications</b>    | <table border="1"> <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                                                                                                                                                                                                            |              |    |                |    |             |    |                   |    |
| <b>CERCLA Hazardous Substances</b> | None known.                                                                                                                                                                                                   |              |    |                |    |             |    |                   |    |

**-- State Regulations --**

|                      |                                                                                                                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cal. Prop. 65</b> | 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 cadmium < 0.01 ppm arsenic < 0.01 ppm lead < 0.05 ppm Benzene, CAS no. 71-43-2 0.002% Toluene, CAS no. 108-88-3 |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**-- Product Registrations --**

|                                      |                 |
|--------------------------------------|-----------------|
| <b>U.S. Fuel Registration</b>        | Not applicable. |
| <b>Finnish Registration Number</b>   | Not Registered  |
| <b>Swedish Registration Number</b>   | Not Registered  |
| <b>Norwegian Registration Number</b> | Not Registered  |
| <b>Danish Registration Number</b>    | Not Registered  |
| <b>Swiss Registration Number</b>     | Not Registered  |
| <b>Italian Registration Number</b>   | Not Registered  |

**-- Other / International --**

|                                             |                 |
|---------------------------------------------|-----------------|
| <b>Miscellaneous Regulatory Information</b> | Not determined. |
|---------------------------------------------|-----------------|

|    |                          |
|----|--------------------------|
| 16 | <b>Other Information</b> |
|----|--------------------------|

|                           |                                                         |      |            |         |
|---------------------------|---------------------------------------------------------|------|------------|---------|
| Issuing Department        | Product Safety and Compliance Department (440-943-1200) |      |            |         |
| Created Date              | 02 November 2011                                        |      |            |         |
| Preparation/Revision Date | 22 August 2013                                          |      |            |         |
| US NFPA Codes             | Health                                                  | Fire | Reactivity | Special |
|                           | 1                                                       | 1    | 0          | N/E     |
| HMIS Codes                | Health                                                  | Fire | Reactivity |         |
|                           |                                                         |      |            |         |

|   |   |   |
|---|---|---|
| 0 | 1 | 0 |
|---|---|---|

**Revision Indicators**

This MSDS has no revisions since 22 August 2013

*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.*