### EFFECTIVE DATE
September 5, 1995

### REVISED DATE
April 14, 2011

### TRADE NAME
Kelf

### CHEMICAL FAMILY
CTFE

### CHEMICAL FORMULA
Polychlorotrifluoroethylene

### SECTION II - HAZARDOUS INGREDIENTS

#### HAZARDOUS COMPONENTS
None

### SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (°F)</td>
<td>N/A</td>
</tr>
<tr>
<td>Freezing Point (°F)</td>
<td>N/A</td>
</tr>
<tr>
<td>Volatility / Volume (%)</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>210 - 212</td>
</tr>
<tr>
<td>Vapor Pressure (mmHg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in H2O</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Appearance / Odor</td>
<td>Milky-White and Odorless</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1)</td>
<td>ab. 1.0</td>
</tr>
<tr>
<td>Acidity</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Does not flash</td>
</tr>
<tr>
<td>Lower Flame Point</td>
<td></td>
</tr>
<tr>
<td>Higher Flame Point</td>
<td></td>
</tr>
<tr>
<td>Extinguish Media For Fire</td>
<td>Foam, CO2, Dry Chemicals and Water Spray</td>
</tr>
<tr>
<td></td>
<td>Self-contained breathing apparatus and protective clothing</td>
</tr>
<tr>
<td>Unusual Fire Hazard</td>
<td>When heating over 150°C decomposition products may be formed including HF, HCl, etc.</td>
</tr>
</tbody>
</table>

### SECTION V - HEALTH HAZARD DATA

#### HEALTH HAZARD
Harmful if swallowed

#### THRESHOLD LIMIT VALUE

#### OVER EXPOSURE EFFECTS

### SECTION VI - REACTIVITY DATA

#### CHEMICAL STABILITY
Stable

#### CONDITIONS TO AVOID
Heat, sparks and open flames
SECTION VI - REACTIVITY DATA - CONTINUED

INCOMPATIBLE MATERIALS
Molten alkali metals, interhalogen compounds and some kinds of amines

DECOMPOSITION PRODUCTS
Toxic and corrosive gases including HF, HCl, etc.

HAZARDOUS POLYMERIZATIONS
POLYMERIZATION AVOID
Will not occur

SECTION VII - SPILL OR LEAK PROCEDURE
FOR SPILL
Collect spilled material and separated from other waste and place in separate containers

WASTE DISPOSAL METHOD
Landfill (best) or incineration

SPECIAL VIII - SPECIAL PROTECTION
RESPIRATORY PROTECTION
Mask for acidic gases is needed when this material is heated above 150°C

VENTILATION
Use local exhaust if this material is heated

PROTECTIVE GLOVES

EYE PROTECTION
Safety glasses

OTHER PROTECTIVE EQUIPMENT
Eye wash station

HANDLING AND STORAGE
Wash hands after handling. Do not smoke in work areas.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS

DOT SHIPPING NAME

REPORTABLE QUANTITY (RQ)

UN NUMBER NA#

NA#

PACKAGING SIZE

Notes:
All information recommendations and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources. It is the user’s responsibility to determine the Safety, Toxicity and suitability of his/her own use, handling and disposal request. Since actual use by others is beyond our control, no warranty, expresses or implied, is made by Polymer Plastics Company L.C. as to effects of such use. The results to be obtained or the safety and toxicity of the product, nor does Polymer Plastics Company L.C. assume any liability arising out of use by others of the product referred to herein. The data in this MSDS relate only to the specific material designated herein and do not relate to use in combination with any other material or in any other process.

REFERENCES: N/A = Not Applicable, N/D = Not Determined, N.D.A. = No Date Available