This safety data sheet has been prepared in accordance with the requirements of EC Directive 88/379/EEC and 91/155/EEC (and other related directives) and provides information relating to the safe handling and use of the product.

1. PRODUCT AND COMPANY INFORMATION

<table>
<thead>
<tr>
<th>Product Code</th>
<th>PP00310</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Name</td>
<td>Glass Fiber Kit PP-310/311</td>
</tr>
<tr>
<td>Manufacturer/Supplier</td>
<td>Loctite UK</td>
</tr>
<tr>
<td>Address</td>
<td>Watchmead, Welwyn Garden City, Herts., AL71JB</td>
</tr>
<tr>
<td>Phone Number</td>
<td>01 707 358800</td>
</tr>
<tr>
<td>Fax Number</td>
<td>01 707 358900</td>
</tr>
<tr>
<td>Emergency Phone Number</td>
<td>+353-1-4599301/+353-1-87-2629625/+353-1-4046444</td>
</tr>
</tbody>
</table>

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Nature</th>
<th>Glass fibre repair kit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Components in Product for EC</td>
<td></td>
</tr>
<tr>
<td>Component Name</td>
<td></td>
</tr>
<tr>
<td>Styrene Monomer</td>
<td>Concentration: 20.00 - 40.00</td>
</tr>
<tr>
<td>Unsaturated Polyester Resin</td>
<td>Concentration: 50.00 - 70.00</td>
</tr>
<tr>
<td></td>
<td>R Phrases: R10, R20, R36/38</td>
</tr>
<tr>
<td></td>
<td>Classification:</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Flammable.
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.

4. FIRST AID MEASURES

First Aid - Inhalation
Remove affected person to fresh air, and if still feeling unwell seek medical attention.

First Aid - Skin
Wash skin with plenty of soap and water.

First Aid - Eyes
Flush eyes immediately with plenty of water for at least 15 minutes.

First Aid - Ingestion
Rinse mouth with water, then give plenty of water or milk to drink. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

No unusual fire hazards.
If product is involved in fire extinguish with dry powder, foam or carbon dioxide.
5. **FIRE FIGHTING MEASURES**

Thermal decomposition would produce a complex variety of chemical species, some of which could be irritating and/or harmful if inhaled in significant volumes.

6. **ACCIDENTAL RELEASE MEASURES**

Ventilate area.
Eliminate sources of ignition.
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Wash spillage site thoroughly with soap and water or detergent solution.

7. **HANDLING AND STORAGE**

**Handling**
Use in well ventilated area.
Avoid inhaling vapour.
Adequate ventilation is recommended to remove traces of odour.
Avoid sources of ignition - no smoking.
Avoid contact with skin and eyes.

**Storage**
Storage temperature range 1°C to 25°C.
Store away from heat in a cool, well-ventilated area.
Store away from direct sunlight.

8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational exposure limits**

**Styrene Monomer**

SE: NGV 20ppm 8h TWA.
ACGIH: TLV 50ppm (213mg/m³) 8h TWA.
ACGIH: STEL 100ppm (426mg/m³) 15min TWA.

Good industrial hygiene practices should be observed.
In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Paste</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Grey</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Boiling Range/Point (°C)</strong></td>
<td>&gt; 150</td>
</tr>
<tr>
<td><strong>Flash Point (CC) (°C)</strong></td>
<td>32</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>1.12.</td>
</tr>
<tr>
<td><strong>Solubility in Water (kg/m³)</strong></td>
<td>Insoluble</td>
</tr>
</tbody>
</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility in Acetone</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Vapour Pressure (mmHg @25°C)</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Explosion Limits (%)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

The product is relatively stable under normal conditions of use. Extreme heat or exposure to flame should be avoided.

11. TOXICOLOGICAL INFORMATION

**Inhalation**
This product is harmful by inhalation.
Inhalation of vapours may cause headaches or dizziness.
May cause irritation to respiratory system and mucous membranes if used in confined spaces.

**Skin**
This product is classified as a skin irritant.
Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.

**Eyes**
This product is an irritant to the eyes.
Vapours may be irritating to eyes causing lacrimalatory effect.

**Ingestion**
This product is considered to be of low toxicity.
May irritate the digestive tract. Ingestion of large quantities may cause damage to liver or kidneys.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local and national regulations. Incineration under controlled conditions recommended.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>3269</td>
</tr>
<tr>
<td>Air (IATA)</td>
<td>Polyester Resin kit, flammable liquid, Class 3, Pkg. Grp. III.</td>
</tr>
<tr>
<td>Sea (IMO)</td>
<td>Polyester Resin kit, flammable liquid, Class 3.3, Pkg. Grp. III.</td>
</tr>
<tr>
<td>Road (ADR)/Rail (RID)</td>
<td>Polyester Resin kit, flammable liquid, Class 3, Item No. 5° (c).</td>
</tr>
</tbody>
</table>
15. REGULATORY INFORMATION

Contains
Labelling Information
Styrene Monomer
Harmful None None

R phrases
R10 Flammable.
R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.

S phrases
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of
S16 Keep away from sources of ignition - No Smoking.

Voluntary Labelling
N/A

16. OTHER INFORMATION

MSDS first issued 15 March 1996

Prepared by:
Dr. Prabhu Kulkarni FICI., MIOSH., MBIRA.,
Senior Chemist.
Health & Regulatory Affairs - Europe

Further Information may be obtained from:-
Loctite Corporation,
Health and Regulatory Affairs - Europe,
Tallaght Business Park,
Whitestown,
Dublin 24,
Ireland.

Tel: +353-1-4046444.
Fax: +353-1-4510806.

Attention of users is drawn to the possible hazards from improper use of the product(s).

The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date. Neither Loctite nor its subsidiary companies accept any liability arising out of the use of the information provided here or the use, application or processing of the product(s) described herein.