| Shrink Sleeve<br>The Worldwide Tubing Solution<br>Heat Shrinkable Tubing Solution  | MCDC  | File No.                       | PVLF-01       |
|--|---|--------------------------------|---------------|
|  | MSDS<br>( Material Safety Data Sheet )  | Issue Data                     | 01-02-03      |
|  |   | Revised Date                   |               |
|  | PVLF  | Revised Item                   |               |
|  | (P.V.C Heat Shrink Sleeve)  | Page                           | 1/3           |
| <ol> <li>Production name : PVLF (PVC</li> <li>Company name, Address : Shi<br/>Ke</li> </ol>  | rink Sleeve Ltd., Camion House, Mill La<br>int, U.K. TN14 5BX<br>732-462841 Eax : 44(0)1722 462954                            | ne, Sevenoaks,                 |               |
| <ol> <li>Component : Polyvinyl Vinyl Cf<br/>Percentage : 80/</li> <li>Component : Plasticizer (CAS I<br/>Percentage : 3~</li> <li>Component : Stabilizer(TIN-ma<br/>Percentage : 2~</li> <li>Component : Pigment, ETC<br/>Percentage : &lt;0.</li> </ol> | lo. 117-81-7)<br>15.0%<br>Ilate) (CAS No. 103-23-1)<br>5.0%   | -86-2)                         |               |
| <ul> <li>4) Physical form : Solid</li> <li>5) Physical hazards : Igniting sleeven</li> </ul>   | lo classification assigned  | flow cas                       | v             |
| Skin contact : Short term exposi<br>Long term exposi<br>Eye contact : Short term exposi  | are : No information on significant adve<br>are : No information on significant adve<br>re : Irritation                       | erse effects.<br>erse effects. |               |
| singeotion - Short term exposu   | re : No information on significant adve<br>re : No information on significant adve<br>re : No information on significant adve | rse offecte                    |               |
| CTION 4. FIRST AID MEASURE   | S   |                                |               |
|  | ure immediately, And Breathe in fresh   |                                |               |
| Skin contact : If contact the mell<br>immediately. Wasł<br>evidence of chemic  | ing solid, Remove contaminated clothin<br>with soap or mild detergent and large<br>rai remains. Get modical attention if      | e amounts of water u           | es<br>ntil no |
| y Lye contact, wash eyes immedi  | ately with large amount of water or no  | rmal salino                    |               |
|  | of chemical remains . Get medical atten<br>keep head lower than hips to help prev   | tion, if need                  |               |

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| The Worklavide Tubing Solution<br>Heat Shrinkable Tubing Solution       (Material Safety Data Sheet )       Revised Data         PVLF       Revised Item       Page       2/3         SECTION 5. FIRE-FIGHTING MEASURES<br>Ignition Point : 391°C<br>Burning Point : 454°C       Page       2/3         1) Extinguishing media : Regular dry chemical .carbon dioxide, water, regular foam<br>large fire : Use regular foam of flood with fine water spray       2) Firefighting : Move container foam fine area if it can be done without risk. Do not scatter spilled<br>material with high- pressure water streams. Dike for later disposal. Use extinguishing<br>agents appropriate for surrounding fire. Avoid inhalation of material or combustion by -<br>products. Stay upwind and keep out of low areas.         SECTION 6. ACCIDENTAL RELEASE MEASURES<br>Physical hazards :: No information on significant adverse effects.<br>Use the air cleaner clean up.         SECTION 7. HANDING AND STROAGE<br>Store and handling in accordance with all current regulations and standards.<br>Keep out of the direct rays of the sun and keep the temperature 25 degrees.         SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION<br>1) Polyvinyl Chloride (PVC) : No accupational exposures limits established<br>2) Eve protection : Wear appropriate chemical resistant gloves. OSHA REGULATED SUBSTANCES U.S.OSHA<br>29 CPR 1910.1017         ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES<br>1) Physical state : Solid<br>2) Appearance : Colourless, Colour<br>3) Change in appearance : Changes colour on exposure to heat or light<br>4) Physical form : Solid<br>2) Appearance : Not available<br>6) Boiling point : Not available<br>6) Boiling point : Not available<br>7) Metting point : Not available<br>7) Appearance : Not available<br>7) Appearance : Not available<br>7) Appearance :   |  |   |  |            |
|--|--|---|--|------------|
| Shrfink Sieeve<br>The Worldwide Tubing Solution<br>Heat Shrinkeble Tubing Solution       (Material Safety Data Sheet)       Revised Date         PVLF<br>Heat Shrinkeble Tubing Solution       PVLF<br>(P.V.C Heat Shrink Sleeve)       Revised Item       2/3         SECTION 5. FIRE-FIGHTING MEASURES<br>Ignition Point: 392/C<br>Burning Point: 454°C       Revised Item       Page       2/3         SECTION 5. FIRE-FIGHTING MEASURES<br>Ignition Point: 392/C<br>Burning Point: 392/C<br>Burning Point: 454°C       Revised Item       Page       2/3         SECTION 5. FIRE-FIGHTING MEASURES<br>Ignition Point: 392/C<br>Burning Point: 454°C       Page       2/3         1) Extinguishing media : Regular dry chemical .carbon dioxide, water, regular foam<br>large fire : Use regular foam of flood with fine water spray       2) Firefighting : Move container foam fire area if it can be done without risk. Do not scatter spilled<br>material with high- pressure water streams. Dike for later disposal. Use extinguishing<br>agents appropriate for surrounding fire. Avoid inhalation of material or combustion by -<br>products. Stay upwind and keep out of low areas.         SECTION 5. ACCIDENTAL RELEASE MEASURES<br>Physical hazards : : No information on significant adverse effects.<br>Use the all cleaner clean up.         SECTION 7. HANDING AND STROAGE         Store and handling in accordance with all current regulations and standards.<br>Keep out of the direct rays of the sun and keep the temperature 25 degrees.         SECTION 9. EXPOSURE CONTROLS/ PERSONAL PROFECTION<br>1) Polyinyl Chloride (PVC) : No accupational exposures limits established<br>2) Fye protection : Wear apapropriate chemical resistant slow karea.<br>3)  | The Worldwide Tubing Solution  | (Material Safety Data Sheet)  | File No.   | PVLF-01    |
| The Worldwide Tubing Solution       International Control Values Street ()       Revised Date         Heat Shirinkable Tubing Solution       PVLC Heat Shrink Sleeve)       Revised Item         Page       2/3         SECTION 5. FIRE-FIGHTING MEASURES       Ignition Point : 391°C         Burning Point : 454°C       Image in the start start in the start s   |  |   | Issue Data   | 01-02-03   |
| PVLF         Revised Item           (P.V.C Heat Shrink Sleeve)         Page         2/3           SECTION 5. FIRE-FIGHTING MEASURES         Ignition Point: 391°C         Burning Point: 454°C           1) Extinguishing media: Regular dry chemical .carbon dioxide, water, regular foam large fire : Use regular foam of flood with fine water spray         2) Firefighting : Move container foam fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material work area.           Store and handling in accordance with all current regulations and standards. Keep out of the direct rays of the sun and keep the temperature 25 degrees.           Store and handling in accordance with age propriate chemical resistant gloves. OSHA REGULATED SUBSTANCES U.S.OSHA           1) Polyinyl Choinde (PVC) : No accupational exposures Imits established           2) Gloves : Wear appropriate chemical resistant glo  |  |   | Revised Date   |            |
| (P.V.C Heat Shrink Sleeve)         Page         2/3           SECTION S. FIRE-FIGHTING MEASURES<br>Ignition Point : 391°C<br>Burning Point : 454°C         Image: State St   |  |   | Revised Item   |            |
| <ul> <li>SECTION 5. FIRE-FIGHTING MEASURES Ignition Point : 331°C Burning Point : 454°C <ol> <li>Extinguishing media : Regular dry chemical .carbon dioxide, water, regular foam large fire : Use regular foam of flood with fine water spray</li> <li>Firefighting : Move container foam fire area if it can be done without risk. Do not scatter spilled material with high- pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by products. Stay upwind and keep out of low areas.</li> </ol></li></ul> SECTION 6. ACCIDENTAL RELEASE MEASURES Physical hazards :: No information on significant adverse effects. Use the air cleaner clean up. SECTION 7. HANDING AND STROAGE Store and handling in accordance with all current regulations and standards. Keep out of the direct rays of the sun and keep the temperature 25 degrees. SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION 1 Polyiving' Chloride (PVC) : No occupational exposures limits established 2) Eye protection : Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. 3) Clothing : Wear appropriate chemical resistant clothing. 4) Gloves : Wear appropriate chemical resistant gloves. OSHA REGULATED SUBSTANCES U.S.OSHA 29CFR 1910.1017 ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES 1) Physical state : Solid 2) Appearance : Changes colour on exposure to heat or light 4) Ore it. Not available 6) Boiling point : Not available 6) Boiling point : Not available 7) Meiting point : Not available 7) Haver solubility : Insoluble |  |   | Page   | 2/3        |
| <ul> <li>arge fife: Use regular foam of flood with fine water spray</li> <li>Firefighting : Move container foam fire area if it can be done without risk. Do not scatter spilled material with high- pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by products. Stay upwind and keep out of low areas.</li> <li>SECTION 6. ACCIDENTAL RELEASE MEASURES</li> <li>Physical hazards :: No information on significant adverse effects. Use the air cleaner clean up.</li> <li>SECTION 7. HANDING AND STROAGE</li> <li>Store and handling in accordance with all current regulations and standards. Keep out of the direct rays of the sun and keep the temperature 25 degrees.</li> <li>SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION</li> <li>1) Polyvinyl Chloride (PVC) : No occupational exposures limits established</li> <li>2) Eye protection : Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.</li> <li>3) Clothing : Wear appropriate chemical resistant clothing.</li> <li>4) Gloves : Wear appropriate chemical resistant gloves. OSHA REGULATED SUBSTANCES U.S.OSHA 29CFR 1910.1017</li> <li>ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES</li> <li>1) Physical state : Solid</li> <li>2) Appearance : Changes colour on exposure to heat or light</li> <li>4) Physical state : Not available</li> <li>6) Boiling point : Not available</li> <li>7) Meiting point : Not available</li> <li>9) Vapor density : Not available</li> <li>9) Vapor density : Not available</li> <li>9) Vapor density : Not available</li> <li>10) Appearance : Not available</li> <li>10) Soperific gravity(water=1) : 1.2 - 1.3</li> <li>11) Water solubility : Insoluble</li> <li>12) PH : Not applicable</li> <li>14) Odor threshold : Not available</li> </ul>   | Ignition Point : 391°C<br>Burning Point : 454°C  |   |  | 10 million |
| <ul> <li>Physical hazards :: No information on significant adverse effects.<br/>Use the air cleaner clean up.</li> <li>SECTION 7. HANDING AND STROAGE</li> <li>Store and handling in accordance with all current regulations and standards.<br/>Keep out of the direct rays of the sun and keep the temperature 25 degrees.</li> <li>SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION <ol> <li>Polyvinyl Chloride (PVC) : No occupational exposures limits established</li> <li>Pey protection : Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.</li> <li>Clothing : Wear appropriate chemical resistant clothing.</li> <li>Gloves : Wear appropriate chemical resistant gloves. OSHA REGULATED SUBSTANCES U.S.OSHA</li> </ol> </li> <li>29 EVENTON 9. PHYSICAL AND CHEMICAL PROPERTIES <ol> <li>Physical state : Solid</li> <li>Appearance : Colourless, Colour</li> <li>Change in appearance : Changes colour on exposure to heat or light</li> <li>Physical form : Solid</li> <li>Codor : Not available</li> <li>Wapor pressure : Not available</li> <li>Vapor density : Not available</li> <li>Vapor density : Not available</li> <li>Vapor density : Not available</li> <li>Yapering ravity(water=1) : 1.2 - 1.3</li> <li>Water solubility : Insolubile</li> <li>PH : Not applicable</li> <li>Volatility : Not applicable</li> <li>Volatility : Not applicable</li> <li>Volatility : Not applicable</li> </ol> </li> </ul>  | 2) Firefighting : Move container<br>material with hig<br>agents appropria  | re : Use regular foam of flood with fine<br>foam fire area if it can be done without<br>h- pressure water streams. Dike for late<br>ite for surrounding fire. Avoid inhalation  | water spray<br>risk. Do not scatte<br>er disposal. Use ext | inquiching |
| <ul> <li>Store and handling in accordance with all current regulations and standards.</li> <li>Keep out of the direct rays of the sun and keep the temperature 25 degrees.</li> <li><b>ECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION</b> <ol> <li>Polyvinyl Chlonde (PVC) : No occupational exposures limits established</li> <li>Eye protection : Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.</li> <li>Clothing : Wear appropriate chemical resistant clothing.</li> <li>Gloves : Wear appropriate chemical resistant gloves. OSHA REGULATED SUBSTANCES U.S.OSHA</li> </ol> </li> <li><b>ECTION 9. PHYSICAL AND CHEMICAL PROPERTIES</b> <ol> <li>Physical state : Solid</li> <li>Appearance : Colourless, Colour</li> <li>Change in appearance : Changes colour on exposure to heat or light</li> <li>Physical form : Solid</li> </ol> </li> <li>Boiling point : Not available</li> <li>Vapor density : Not available</li> <li>Vapor density : Not available</li> <li>Specific gravity(water=1) : 1.2 - 1.3</li> <li>Water solubility : Insoluble</li> <li>PH : Not applicable</li> <li>Volatility : Not applicable</li> <li>Volatility : Not applicable</li> </ul>   | Physical hazards : : No informati  | on on significant adverse effects.  |  |            |
| <ol> <li>Physical state : Solid</li> <li>Appearance : Colourless, Colour</li> <li>Change in appearance : Changes colour on exposure to heat or light</li> <li>Physical form : Solid</li> <li>Odor : Not available</li> <li>Boiling point : Not available</li> <li>Yapor pressure : Not available</li> <li>Vapor pressure : Not available</li> <li>Specific gravity(water=1) : 1.2 - 1.3</li> <li>Water solubility : Insoluble</li> <li>pH : Not applicable</li> <li>Volatility : Not available</li> <li>Volatility : Not available</li> </ol>  | Store and handling in accordance<br>Keep out of the direct rays of the<br>SECTION 8. EXPOSURE CONTRO<br>1) Polyvinyl Chloride (PVC) : No c<br>2) Eye protection : Wear splash n<br>quick drench s<br>3) Clothing : Wear appropriate che<br>4) Gloves : Wear appropriate che  | with all current regulations and standa<br>sun and keep the temperature 25 degr<br>OLS/ PERSONAL PROTECTION<br>occupational exposures limits established<br>esistant safety goggles. Provide an eme<br>shower in the immediate work area.<br>temical resistant clothing | ees.<br>I<br>rgency eye wash fo                            |            |
|  | <ol> <li>Physical state : Solid</li> <li>Appearance : Colourless, Colou</li> <li>Change in appearance : Chang</li> <li>Physical form : Solid</li> <li>Odor : Not available</li> <li>Boiling point : Not available</li> <li>Vapor pressure : Not available</li> <li>Vapor density : Not available</li> <li>Specific gravity(water=1) : 1.2</li> <li>Water solubility : Insoluble</li> <li>PH : Not applicable</li> <li>Volatility : Not applicable</li> </ol> | "<br>es colour on exposure to heat or light   |  |            |
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