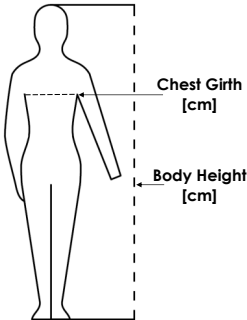







## PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS ["CHEMMASTER" BOILERSUIT RANGE] - CLOTHING WITH LIQUID-TIGHT, [TYPE 3], AND SPRAY-TIGHT, [TYPE 4] CONNECTIONS.

CONFORMING TO THE REQUIREMENTS OF BS EN 14605:2005+A1:2009

| USER INFORMATION SHEET  |  |  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
|---|--|--|----------------------|--|----------|------------------|------------------|----------------|-------------------------|---------|----------------------|----------------------|--|-------------|---------------------|---------------------|-----------------------------|---------------|---------|---------|------------------|----------------|---------|---------|---------------------|--------|--------|---------|---------------|----------------|---------|---------|---|----------------|------|------|---|----------------|------|------|
| <b>INTRODUCTION</b>   |  | <b>MATERIAL/GARMENT PERFORMANCE DATA [EN 14605]</b>  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <ul style="list-style-type: none"> <li>These Chemmaster garments are re-usable chemical protective clothing manufactured to meet the requirements of the PPE Directive 89/689/EEC, (and subsequent amendments), and the harmonized European Standard - EN 14605:2005+A1:2009.</li> <li>These Chemmaster garments are manufactured under ISO 9001 quality control procedures.</li> <li>Bag and garment labels indicate product type/code.</li> <li>The determination of the suitability of Chemmaster garments for the intended application should be made by trained and qualified safety personnel and is the users final responsibility.</li> </ul>   |  | <table border="1"> <thead> <tr> <th>TEST</th> <th>STANDARD</th> <th>PERFORMANCE</th> <th>CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>Abrasion Resistance</td> <td>EN 530</td> <td>&gt; 2,000 Cycles</td> <td>Class 6</td> </tr> <tr> <td>Flex Cracking Resistance</td> <td>EN ISO 7854</td> <td>&gt; 40,000 Cycles</td> <td>Class 5</td> </tr> <tr> <td>Tear Strength [Trapezoidal]</td> <td>EN ISO 9073-4</td> <td>&gt; 20 N</td> <td>Class 2</td> </tr> <tr> <td>Tensile Strength</td> <td>EN ISO 13934-1</td> <td>&gt; 500 N</td> <td>Class 5</td> </tr> <tr> <td>Puncture Resistance</td> <td>EN 863</td> <td>&gt; 50 N</td> <td>Class 3</td> </tr> <tr> <td>Seam Strength</td> <td>EN ISO 13935-2</td> <td>&gt; 500 N</td> <td>Class 6</td> </tr> <tr> <td>Resistance To Penetration By Liquids [Type 4: Spray Test]</td> <td>EN ISO 17491-4</td> <td>PASS</td> <td>PASS</td> </tr> <tr> <td>Resistance To Penetration By Liquids [Type 3: Jet Test]</td> <td>EN ISO 17491-3</td> <td>PASS</td> <td>PASS</td> </tr> </tbody> </table> |                      |  | TEST     | STANDARD         | PERFORMANCE      | CLASSIFICATION | Abrasion Resistance     | EN 530  | > 2,000 Cycles       | Class 6              | Flex Cracking Resistance                         | EN ISO 7854 | > 40,000 Cycles     | Class 5             | Tear Strength [Trapezoidal] | EN ISO 9073-4 | > 20 N  | Class 2 | Tensile Strength | EN ISO 13934-1 | > 500 N | Class 5 | Puncture Resistance | EN 863 | > 50 N | Class 3 | Seam Strength | EN ISO 13935-2 | > 500 N | Class 6 | Resistance To Penetration By Liquids [Type 4: Spray Test] | EN ISO 17491-4 | PASS | PASS | Resistance To Penetration By Liquids [Type 3: Jet Test] | EN ISO 17491-3 | PASS | PASS |
| TEST  | STANDARD   | PERFORMANCE  | CLASSIFICATION       |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Abrasion Resistance   | EN 530   | > 2,000 Cycles   | Class 6              |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Flex Cracking Resistance  | EN ISO 7854  | > 40,000 Cycles  | Class 5              |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Tear Strength [Trapezoidal]   | EN ISO 9073-4  | > 20 N   | Class 2              |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Tensile Strength  | EN ISO 13934-1   | > 500 N  | Class 5              |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Puncture Resistance   | EN 863   | > 50 N   | Class 3              |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Seam Strength   | EN ISO 13935-2   | > 500 N  | Class 6              |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Resistance To Penetration By Liquids [Type 4: Spray Test]   | EN ISO 17491-4   | PASS   | PASS                 |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Resistance To Penetration By Liquids [Type 3: Jet Test]   | EN ISO 17491-3   | PASS   | PASS                 |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <b>APPLICATION</b>  |  | <p><b>Note 1:</b> Whole suit type testing, EN ISO 17491-4 &amp; EN ISO 17491-3, has been conducted with face, wrists, ankles and closures sealed with a 'Chemical' Tape.</p>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <ul style="list-style-type: none"> <li>Chemmaster protective clothing provides the wearer with protection against liquid chemicals, for a limited time.</li> <li>Chemmaster garments will protect only those parts of the body that they cover.</li> <li>When these Chemmaster garments are used in conjunction with other PPE, (e.g. Respirators, Gloves, Boots, Hoods, etc.), the connections should be sealed with a 'Chemical' tape.</li> </ul>   |  | <b>RESISTANCE TO PERMEATION BY LIQUIDS [EN 374-3]</b>  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <b>USAGE</b>  |  | <b>BREAKTHROUGH TIME [MINS.] / CLASSIFICATION [EN 14605]</b>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <ul style="list-style-type: none"> <li>All PPE should be donned/doffed in an area away from any potential risk.</li> <li>Before use, the wearer should ensure that the clothing has been thoroughly cleaned, following any previous usage, and that the materials, seams and closures are inspected to ensure that the protection offered by the Chemmaster garment will meet the conditions for safe use.</li> <li>When using this Chemmaster garment with other PPE, (e.g. Respirators, Gloves, Boots, etc.), Ensure that any respirator being used is properly fitted prior to raising and fastening the Hood. Ensure that the Sleeves and Legs of the suit are worn over any Gloves or Boots being used.</li> <li>Before entering the hazardous area, all closures should be fastened and all openings/closures and connections, to other PPE, should be secured, using an appropriate 'Chemical' tape.</li> <li>In the event of leakage or damage to the Chemmaster garment during use, the wearer should immediately leave the hazardous area and remove the garment.</li> <li>After use, to remove contamination, Chemmaster clothing should be RINSED DOWN with cold water, and subsequently, allowed to Drip Line Dry, in the shade, clear of UV sources.</li> </ul> |  | <table border="1"> <thead> <tr> <th>CHEMICAL</th> <th>CONCENTRATION</th> <th>FABRIC</th> <th>SEAM</th> </tr> </thead> <tbody> <tr> <td>Sodium Hydroxide [NaOH]</td> <td>50 wt%</td> <td>&gt;480 mins. / Class 6</td> <td>&gt;480 mins. / Class 6</td> </tr> <tr> <td>Sulphuric Acid [H<sub>2</sub>SO<sub>4</sub>]</td> <td>98 wt%</td> <td>&gt;60 mins. / Class 3</td> <td>&gt;60 mins. / Class 3</td> </tr> </tbody> </table>   |                      |  | CHEMICAL | CONCENTRATION    | FABRIC           | SEAM           | Sodium Hydroxide [NaOH] | 50 wt%  | >480 mins. / Class 6 | >480 mins. / Class 6 | Sulphuric Acid [H <sub>2</sub> SO <sub>4</sub> ] | 98 wt%      | >60 mins. / Class 3 | >60 mins. / Class 3 |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| CHEMICAL  | CONCENTRATION  | FABRIC   | SEAM                 |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Sodium Hydroxide [NaOH]   | 50 wt%   | >480 mins. / Class 6   | >480 mins. / Class 6 |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| Sulphuric Acid [H <sub>2</sub> SO <sub>4</sub> ]  | 98 wt%   | >60 mins. / Class 3  | >60 mins. / Class 3  |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <b>WARNINGS</b>   |  | <p><b>Note 2:</b> Other chemicals have been tested. Please contact supplier for further information.<br/><b>Note 3:</b> Breakthrough times on seams may be lower than on the fabric.<br/><b>Note 4:</b> All tests were performed independently and are a reflection of the performance of the 'as new' fabric only in controlled laboratory conditions. Results are not intended to give any idea of "safe use" for the garment.</p>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <ul style="list-style-type: none"> <li>Fabrics used in the construction of Chemmaster garments have low air permeability and can cause heat stress. Frequent rest is advised.</li> <li>This Chemmaster garment should be used by persons who are trained and aware of the dangers relating to the work being performed.</li> <li>Flammable material. Keep away from fire.</li> <li>If this Chemmaster garment is damaged in any way, or is still contaminated after being rinsed down, its use should be discontinued and the garment disposed of at the earliest opportunity.</li> <li>When disposing of used chemical protective clothing, we recommend it be treated as harmful and disposed of as hazardous waste in accordance with national/local regulations.</li> </ul>   |  | <b>GARMENT SIZES [REFER TO GARMENT SIZE LABEL]</b>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <b>MAINTENANCE</b>  |  | <p>The following table reflects the dimensions of the four standard sizes. Alpha Solway Limited make the statement that they also manufacture garments to size designations out-with these standard sizes, (e.g. Extra Small, XX Large, XXX Large, etc.), and also provide their customers with the facility to order garments with dimensions to their own bespoke size.</p>  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <ul style="list-style-type: none"> <li>It is recommended that the wash care instructions, as detailed on the care label, are followed.</li> <li>After use, to remove contamination, Chemmaster clothing should be RINSED DOWN with cold water, and subsequently, allowed to Drip Line Dry, in the shade, clear of UV sources.</li> <li>Advice: For reasons of hygiene the garment should, preferably, be worn by the same person.</li> </ul>  |  | <p>Select appropriate size for wearer's chest and height.</p>  <table border="1"> <thead> <tr> <th>SIZE</th> <th>CHEST GIRTH [CM]</th> <th>BODY HEIGHT [CM]</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>90-98</td> <td>162-168</td> </tr> <tr> <td>M</td> <td>98-106</td> <td>168-174</td> </tr> <tr> <td>L</td> <td>106-114</td> <td>174-180</td> </tr> <tr> <td>XL</td> <td>114-122</td> <td>180-186</td> </tr> </tbody> </table>  |                      |  | SIZE     | CHEST GIRTH [CM] | BODY HEIGHT [CM] | S              | 90-98                   | 162-168 | M                    | 98-106               | 168-174  | L           | 106-114             | 174-180             | XL                          | 114-122       | 180-186 |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| SIZE  | CHEST GIRTH [CM]   | BODY HEIGHT [CM]   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| S   | 90-98  | 162-168  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| M   | 98-106   | 168-174  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| L   | 106-114  | 174-180  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| XL  | 114-122  | 180-186  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <b>STORAGE</b>  |  | <b>WASH CARE SYMBOLS [REFER TO GARMENT CARE LABEL]</b>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <ul style="list-style-type: none"> <li>It is recommended that new Chemmaster garments are stored in their original packaging and clear of UV sources.</li> <li>Following use, and after having been RINSED DOWN and DRIED, Chemmaster clothing should be stored in a cool, dry and clean environment - always hang to avoid creases.</li> </ul>   |  |    |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
| <b>EXPLANATION OF LABEL SYMBOLS/PICTOGRAMS</b>  |  | <b>EC Type Examination Certificate</b>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
|   | Chemical Protective Clothing.<br>EN 14605:2005+A1:2009.<br>Re-Usable Protection. | Issued By: SGS United Kingdom Ltd.<br>Unit 202b Worle Parkway,<br>WESTON-SUPER-MARE,<br>BS22 6WA, United Kingdom<br>EC Notified Body No. <b>0120</b>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
|   | EN 14605:2005+A1:2009<br>Type 3: Liquid-Tight Clothing.                          | <b>EC Quality Control System Certificate</b>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
|   | EN 14605:2005+A1:2009.<br>Type 4: Spray-Tight Clothing.                          | Issued By: SGS United Kingdom Ltd.<br>Unit 202b Worle Parkway,<br>WESTON-SUPER-MARE,<br>BS22 6WA, United Kingdom<br>EC Notified Body No. <b>0120</b>   |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |
|   | Refer to user instruction.   |  |                      |  |          |                  |                  |                |                         |         |                      |                      |  |             |                     |                     |                             |               |         |         |                  |                |         |         |                     |        |        |         |               |                |         |         |   |                |      |      |   |                |      |      |

**DISCLAIMER:** Alpha Solway and its distributors cannot accept responsibility for improper use of this Chemmaster garment.

**NOTE:** Should you require any assistance or further technical information regarding this Chemmaster garment, please phone the Company at the telephone number provided and ask for the **Sales Department**.