

## PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS ["CHEMMASTER" GARMENT RANGE] - CLOTHING PROVIDING PROTECTION TO PARTS OF THE BODY ONLY, [TYPE PB [4]].

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

### USER INFORMATION SHEET

INTRODUCTION		MATERIAL/GARMENT PERFORMANCE DATA [EN 14605]																																																					
<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 colspan="2">CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>Abrasion Resistance</td> <td>EN 530</td> <td>&gt; 2,000 Cycles</td> <td colspan="2">Class 6</td> </tr> <tr> <td>Flex Cracking Resistance</td> <td>EN ISO 7854</td> <td>&gt; 40,000 Cycles</td> <td colspan="2">Class 5</td> </tr> <tr> <td>Tear Strength [Trapezoidal]</td> <td>EN ISO 9073-4</td> <td>&gt; 20 N</td> <td colspan="2">Class 2</td> </tr> <tr> <td>Tensile Strength</td> <td>EN ISO 13934-1</td> <td>&gt; 500 N</td> <td colspan="2">Class 5</td> </tr> <tr> <td>Puncture Resistance</td> <td>EN 863</td> <td>&gt; 50 N</td> <td colspan="2">Class 3</td> </tr> <tr> <td>Seam Strength</td> <td>EN ISO 13935-2</td> <td>&gt; 500N</td> <td colspan="2">Class 6</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	> 500N	Class 6																
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<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> <li>While the use of a combination of partial body protection products can afford a degree of full body protection it is recommended that, in areas where full body protection is required, a one-piece suit should be worn.</li> </ul>		<table border="1"> <thead> <tr> <th colspan="4">BREAKTHROUGH TIME [MINS.] / CLASSIFICATION [EN 14605]</th> </tr> <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>				BREAKTHROUGH TIME [MINS.] / CLASSIFICATION [EN 14605]				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																																		
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USAGE		<p><b>Note 1:</b> Other chemicals have been tested. Please contact supplier for further information.  <b>Note 2:</b> Breakthrough times on seams may be lower than on the fabric.  <b>Note 3:</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>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>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>		<h3>GARMENT SIZES [REFER TO GARMENT DIMENSION LABEL]</h3> <p>The following table reflects the dimensions of the standard garments available from Alpha Solway.</p> <table border="1"> <thead> <tr> <th colspan="6">STANDARD GARMENT DIMENSIONS</th> </tr> <tr> <th>PRODUCT</th> <th>CODE</th> <th colspan="2">LENGTH</th> <th colspan="2">WIDTH</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Aprons</td> <td>CMA 33/23</td> <td>33"</td> <td>84 cm</td> <td>23"</td> <td>58 cm</td> </tr> <tr> <td>CMA 40/36</td> <td>40"</td> <td>102 cm</td> <td>36"</td> <td>92 cm</td> </tr> <tr> <td>CMA 42/36</td> <td>42"</td> <td>107 cm</td> <td>36"</td> <td>92 cm</td> </tr> <tr> <td>CMA 48/36</td> <td>48"</td> <td>122 cm</td> <td>36"</td> <td>92 cm</td> </tr> <tr> <td>Sleeves</td> <td>CMS 15</td> <td>15"</td> <td>38 cm</td> <td>--</td> <td>--</td> </tr> <tr> <td rowspan="6">Headgear</td> <td>CMH 1</td> <td colspan="4" rowspan="6">One Size - Universal Fit</td> </tr> <tr> <td>CMH 2</td> </tr> <tr> <td>CMH 3</td> </tr> <tr> <td>CMH 4</td> </tr> <tr> <td>CMH 7</td> </tr> <tr> <td>CMH 8</td> </tr> </tbody> </table>				STANDARD GARMENT DIMENSIONS						PRODUCT	CODE	LENGTH		WIDTH		Aprons	CMA 33/23	33"	84 cm	23"	58 cm	CMA 40/36	40"	102 cm	36"	92 cm	CMA 42/36	42"	107 cm	36"	92 cm	CMA 48/36	48"	122 cm	36"	92 cm	Sleeves	CMS 15	15"	38 cm	--	--	Headgear	CMH 1	One Size - Universal Fit				CMH 2	CMH 3	CMH 4	CMH 7	CMH 8
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WARNINGS		<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>																																																					
MAINTENANCE		<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>																																																					
STORAGE		<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>																																																					
EXPLANATION OF LABEL SYMBOLS/PICTOGRAMS		<p> Chemical Protective Clothing - Protection To Parts Of The Body Only, [Type PB [4]]. EN 14605:2005+A1:2009. Re-Usable Protection.</p> <p> Refer to user instruction.</p>																																																					
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#### EC Type Examination Certificate

Issued By: SGS United Kingdom Ltd.  
Unit 202b Worle Parkway,  
WESTON-SUPER-MARE,  
BS22 6WA, United Kingdom  
EC Notified Body No. **0120**

#### EC Quality Control System Certificate

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**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**.