SECTION 1: Identification of the substance/mixture and of the company/undertaking

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

Product name: Pursuit LC Columns with less than 10 ml ACN type solvent
Part No.

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.2 Relevant identified uses of the substance or mixture and uses advised against

<table>
<thead>
<tr>
<th>Identified uses</th>
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<tbody>
<tr>
<td>Analytical chemistry. HPLC Column</td>
</tr>
<tr>
<td>A3040MG1 MetaGuard 1.0 mm Pursuit 5u DP 0.01 ml</td>
</tr>
<tr>
<td>A3041MG1 MetaGuard 1.0 mm Pursuit 3u DP 0.01 ml</td>
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<tr>
<td>A3030MG2 MetaGuard 2.0 mm Pursuit 5u C8 0.03 ml</td>
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<tr>
<td>A3031MG2 MetaGuard 2.0 mm Pursuit 3u C8 0.03 ml</td>
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<td>A3040MG2 MetaGuard 2.0 mm Pursuit 5u DP 0.03 ml</td>
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<tr>
<td>A3041MG2 MetaGuard 2.0 mm Pursuit 3u DP 0.03 ml</td>
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<tr>
<td>A3050MG2 MetaGuard 2.0 mm Pursuit 5u PFP 0.03 ml</td>
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<tr>
<td>A3051MG2 MetaGuard 2.0 mm Pursuit 3u PFP 0.03 ml</td>
</tr>
<tr>
<td>A6000MG2 MetaGuard 2.0 mm Pursuit XRs 5U C18, 3/Pk 0.03 ml</td>
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<tr>
<td>A6001MG2 MetaGuard 2.0 mm Pursuit XRs 3U C18, 3/Pk 0.03 ml</td>
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<tr>
<td>A6010MG2 MetaGuard 2.0 mm Pursuit XRs 5U C8, 3/Pk 0.03 ml</td>
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<tr>
<td>A6011MG2 MetaGuard 2.0 mm Pursuit XRs 3U C8, 3/Pk 0.03 ml</td>
</tr>
<tr>
<td>A6020MG2 MetaGuard 2.0 mm Pursuit XRs 5U Dp, 3/Pk 0.03 ml</td>
</tr>
<tr>
<td>A6021MG2 MetaGuard 2.0 mm Pursuit XRs 3U Dp, 3/Pk 0.03 ml</td>
</tr>
<tr>
<td>A3041050X010 Pursuit 3 Diphenyl 50 x 1.0 mm 0.04 ml</td>
</tr>
<tr>
<td>A3051050X010 Pursuit 3 PFP 50 x 1.0 mm 0.04 ml</td>
</tr>
<tr>
<td>A3040050X010 Pursuit 5 Diphenyl 50 x 1.0 mm 0.04 ml</td>
</tr>
<tr>
<td>A6020150X010 Pursuit XRs 3 Diphenyl 50 x 1.0 mm 0.04 ml</td>
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<tr>
<td>A30302020X020 Pursuit 10 C8 20 x 2.0 mm 0.06 ml</td>
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<tr>
<td>A30402020X020 Pursuit 10 Diphenyl 20 x 2.0 mm 0.06 ml</td>
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<tr>
<td>A30301020X020 Pursuit 3 C8 20 x 2.0 mm 0.06 ml</td>
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<tr>
<td>A30501020X020 Pursuit 3 PFP 20 x 2.0 mm 0.06 ml</td>
</tr>
<tr>
<td>A7000MG3 Pursuit 5 PAH MetaGuard 3.0 mm 3/Pk 0.07 ml</td>
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<tr>
<td>A7001MG3 Pursuit 3 PAH MetaGuard 3.0 mm 3/Pk 0.07 ml</td>
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<tr>
<td>A3041100X010 Pursuit 3 Diphenyl 100 x 1.0 mm 0.08 ml</td>
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<td>A30401030X020 Pursuit 3 Diphenyl 30 x 2.0 mm 0.09 ml</td>
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<td>A30501030X020 Pursuit 3 PFP 30 x 2.0 mm 0.09 ml</td>
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<tr>
<td>A3040030X020 Pursuit 5 Diphenyl 30 x 2.0 mm 0.09 ml</td>
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<tr>
<td>A6021030X020 Pursuit XRs 3 Diphenyl 30 x 2.0 mm 0.09 ml</td>
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<tr>
<td>A6000030X020 Pursuit XRs 5 C18 30 x 2.0 mm 0.09 ml</td>
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<tr>
<td>A7501030X020 Pursuit XRs Ultra 2.8 C18 30 x 2.0 mm 0.09 ml</td>
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<tr>
<td>A7511030X020 Pursuit XRS Ultra 2.8 C8 30 x 2.0 mm 0.09 ml</td>
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<tr>
<td>A7521030X020 Pursuit XRS Ultra 2.8 Diphenyl 30x2.0 mm 0.09 ml</td>
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<tr>
<td>A3040030X021 Pursuit 5 Diphenyl 30 x 2.1 mm 0.10 ml</td>
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<td>A3041150X010 Pursuit 3 Diphenyl 150 x 1.0 mm 0.12 ml</td>
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<tr>
<td>A3040150X010 Pursuit 5 Diphenyl 150 x 1.0 mm 0.12 ml</td>
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<tr>
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<td>A3040150P020 Pursuit 3 Diphenyl 50 x 2.0 mm 0.2 ml</td>
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<td>A3040150X020 Pursuit 3 Diphenyl 50 x 2.0 mm 0.2 ml</td>
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<td>A304201G Pursuit 10u Diphenyl 0.2 ml</td>
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<td>A6021050X020 Pursuit XRs 3 Diphenyl 50 x 2.0 mm 0.2 ml</td>
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<td>A6020050X020 Pursuit XRs 5 Diphenyl 50 x 2.0 mm 0.2 ml</td>
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<tr>
<td>A7501050X020 Pursuit XRs Ultra 2.8 C18 50 x 2.0 mm 0.2 ml</td>
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<td>A7511050X020 Pursuit XRS Ultra 2.8 C8 50 x 2.0 mm 0.2 ml</td>
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<td>A3031MG MetaGuard 4.6 mm Pursuit 3u C8 0.2 ml</td>
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<td>A3040MG MetaGuard 4.6 mm Pursuit 5u DP 0.2 ml</td>
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<td>A3041MG MetaGuard 4.6 mm Pursuit 3u DP 0.2 ml</td>
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A3050MG  MetaGuard 4.6 mm Pursuit 5u PFP  0.2 ml
A3051MG  Metaguard 4.6 mm Pursuit 3u PFP  0.2 ml
A6000MG  MetaGuard 4.6 mm Pursuit XRs SU C18, 3/Pk  0.2 ml
A6001MG  MetaGuard 4.6 mm Pursuit XRs 3U C18, 3/P  0.2 ml
A6002MG  MetaGuard 4.6 mm Pursuit XRs 10U C18, 3/P  0.2 ml
A6010MG  MetaGuard 4.6 mm Pursuit XRs SU C8, 3/Pk  0.2 ml
A6011MG  MetaGuard 4.6 mm Pursuit XRs 3U C8, 3/Pk  0.2 ml
A6020MG  MetaGuard 4.6 mm Pursuit XRs SU Dp, 3/Pk  0.2 ml
A6021MG  MetaGuard 4.6 mm Pursuit XRs 3U Dp, 3/Pk  0.2 ml
A3030050X021 Pursuit 5 C8 50 x 2.1 mm  0.2 ml
A3040050X021 Pursuit 5 Diphenyl 50 x 2.1 mm  0.2 ml
A3051030X030 Pursuit 3 PFP 30 x 3.0 mm  0.2 ml
A6021030X030 Pursuit XRs 3 Diphenyl 30 x 3.0 mm  0.2 ml
A3031100X020 Pursuit 3 C8 100 x 2.0 mm  0.3 ml
A3041100X020 Pursuit 3 Diphenyl 100 x 2.0 mm  0.3 ml
A7001100X020 Pursuit 3 PAH 100 x 2.0 mm  0.3 ml
A3051100X020 Pursuit 3 PFP 100 x 2.0 mm  0.3 ml
A3040100X020 Pursuit 5 Diphenyl 100 x 2.0 mm  0.3 ml
A3050100X020 Pursuit 5 PFP 100 x 2.0 mm  0.3 ml
A6011100X020 Pursuit XRs 3 C8 100 x 2.0 mm  0.3 ml
A6021100X020 Pursuit XRs 3 Diphenyl 100 x 2.0 mm  0.3 ml
A6000100X020 Pursuit XRs 5 C18 100 x 2.0 mm  0.3 ml
A7501100X020 Pursuit XRs Ultra 2.8 C18 100 x 2.0 mm  0.3 ml
A7511100X020 Pursuit XRs Ultra 2.8 C8 100 x 2.0 mm  0.3 ml
A7521100X020 Pursuit XRs Ultra 2.8 Diphenyl 100x2.0 mm  0.3 ml
A3040100X021 Pursuit 5 Diphenyl 100 x 2.1 mm  0.3 ml
A3041050X030 Pursuit 3 Diphenyl 50 x 3.0 mm  0.4 ml
A6000050X030 Pursuit XRs 5 C18 50 x 3.0 mm  0.4 ml
A3031150X020 Pursuit 3 C8 150 x 2.0 mm  0.5 ml
A3041150X020 Pursuit 3 Diphenyl 150 x 2.0 mm  0.5 ml
A3051150X020 Pursuit 3 PFP 150 x 2.0 mm  0.5 ml
A3030150X020 Pursuit 5 C8 150 x 2.0 mm  0.5 ml
A3040150X020 Pursuit 5 Diphenyl 150 x 2.0 mm  0.5 ml
A3050150X020 Pursuit 5 PFP 150 x 2.0 mm  0.5 ml
A6011150X020 Pursuit XRs 3 C8 150 x 2.0 mm  0.5 ml
A6021150X020 Pursuit XRs 3 Diphenyl 150 x 2.0 mm  0.5 ml
A6000150X020 Pursuit XRs 5 C18 150 x 2.0 mm  0.5 ml
A6010150X020 Pursuit XRs 5 C8 150 x 2.0 mm  0.5 ml
A6020150X020 Pursuit XRs 5 Diphenyl 150 x 2.0 mm  0.5 ml
A7501150X020 Pursuit XRs Ultra 2.8 C18 150X2.0MM  0.5 ml
A7521150X020 Pursuit XRs Ultra 2.8 Diphenyl 150X2.0 mm  0.5 ml
A3040100X046 Pursuit 3 Diphenyl 30 x 4.6 mm  0.5 ml
A3042030G046 Pursuit 10u DP 30 x 4.6 mm GUARD  0.5 ml
A3030030X046 Pursuit 5 C8 30 x 4.6 mm  0.5 ml
A3040030X046 Pursuit 5 Diphenyl 30 x 4.6 mm  0.5 ml
A6021030X046 Pursuit XRs 3 Diphenyl 30 x 4.6 mm  0.5 ml
A3040150X021 Pursuit 5 Diphenyl 150 x 2.1 mm  0.5 ml
A3050150X021 Pursuit 5 PFP 150 x 2.1 mm  0.5 ml
A3041200X020 Pursuit 3 Diphenyl 200 x 2.0 mm  0.6 ml
A3030100T030 Pursuit 5 C8, S100x3.0 Repl.3  0.7 ml
A3031100T030 Pursuit 3 C8 100 x 3.0 mm  0.7 ml
A3041100T030 Pursuit 3 Diphenyl 100 x 3.0 mm  0.7 ml
A7001100X030 Pursuit 3 PAH 100 x 3.0 mm  0.7 ml
A7001100R030 Pursuit 3 PAH, S100 x 3.0 Repl.  0.7 ml
A3051100X030 Pursuit 3 PFP 100 x 3.0 mm  0.7 ml
A3030100R030 Pursuit 5 C8, S100x3.0 Repl  0.7 ml
A7000100R030 PURSUIT 5 PAH, S100 X 3.0 REPL  0.7 ml
A6000100C030 Pursuit XRs 5-C18 S100 x 3.0 Col  0.7 ml
A6000100T030 Pursuit XRs 5-C18 S100 x 3.0 Repl.3  0.7 ml
A6001100C030 Pursuit XRs 3-C18 S100 x 3.0 Col  0.7 ml
A6001100T030 Pursuit XRs 3-C18 S100 x 3.0 Repl.3  0.7 ml
A6011100X030 Pursuit XRs 3 C8 100 x 3.0 mm  0.7 ml
A6021100X030 Pursuit XRs 3 Diphenyl 100 x 3.0 mm  0.7 ml
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<table>
<thead>
<tr>
<th>Code</th>
<th>Substance/Reagent</th>
<th>Description</th>
<th>Volume</th>
<th>Notes</th>
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<td>A6000100X030</td>
<td>Pursuit XRs 5 C18 100 x 3.0 mm</td>
<td>0.7 ml</td>
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<td>Pursuit XRs 3 C8 100 x 3.0 mm Col</td>
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<td>PURSUITS 5 PAH, S100 X 3.0 REPL.</td>
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<td>A7001100C030</td>
<td>Pursuit 3 PAH, S100 x 3.0 Col</td>
<td>0.7 ml</td>
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<td>Pursuit XRs 5-C18 S100 x 3.0 Repl.</td>
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<td>Pursuit XRs Ultra 2.8 C18 100 x 3.0 mm</td>
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<td>A3031100O046</td>
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<td>1.7 ml</td>
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<tr>
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<td>A7001100X046S</td>
<td>Pursuit 3 PAH 100 X 4.6 mm</td>
<td>1.7 ml</td>
<td>Lot 2631153</td>
<td></td>
</tr>
<tr>
<td>A3041100C046</td>
<td>Pursuit 3 Diphenyl, S100X4.6 mm Col</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A7001100R046</td>
<td>Pursuit 3 PAH, S100 x 4.6 Repl.</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3051100X046</td>
<td>Pursuit 3 FPP 100 x 4.6 mm</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3030100X046</td>
<td>Pursuit 5 C8 100 x 4.6 mm</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3050100X046</td>
<td>Pursuit 5 FPP 100 x 4.6 mm</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A6000100C046</td>
<td>Pursuit XRs 5-C18 S100 x 4.6 Col</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A6001100C046</td>
<td>Pursuit XRs 3-C18 S100 x 4.6 Col</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A6001100T046</td>
<td>Pursuit XRs 3-C18 S100 x 4.6 Repl.</td>
<td>3</td>
<td>1.7 ml</td>
<td></td>
</tr>
<tr>
<td>A6011100X046</td>
<td>Pursuit XRs 3 C8 100 x 4.6 mm</td>
<td>1.7 ml</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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4/17
Pursuit LC Columns with less than 10 ml ACN type solvent

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

A6021100X046 Pursuit XRs 3 Diphenyl 100 x 4.6 mm 1.7 ml
A6000100X046 Pursuit XRs 5 C18 100 x 4.6 mm 1.7 ml
A6010100X046 Pursuit XRs 5 C8 100 x 4.6 mm 1.7 ml
A6020100X046 Pursuit XRs 5 Diphenyl 100 x 4.6 mm 1.7 ml
A70011000C046 Pursuit 3 PAH, S100 x 4.6 Col 1.7 ml
A70011000T046 Pursuit 3 PAH, S100 x 4.6 Repl.3 1.7 ml
A70011000T046ANL Pursuit 3 PAH, S100 x 4.6 Repl.3 1.7 ml
A60001000RO46 Pursuit XRs 5-C18 S100 x 4.6 Repl. 1.7 ml
A3040250C030 Pursuit 5 Diphenyl, S250X3.0 Col 1.8 ml
A3040250X030 Pursuit 5 Diphenyl 250 x 3.0 mm 1.8 ml
A3050250X030 Pursuit 5 PFP 250 x 3.0 mm 1.8 ml
A6000250C030 Pursuit XRs 5-C18 S250 x 3.0 Col 1.8 ml
A6000250X030 Pursuit XRs 5 C18 250 x 3.0 mm 1.8 ml
A7000250C030S Pursuit 5 PAH 250 x 3.0 mm Col 1.8 ml
A6020250X030 Pursuit XRs 5 Diphenyl 250 x 3.0 mm 1.8 ml
A3030150X039 Pursuit 5 C8 150 x 3.9 mm 1.8 ml
A6000150X040 Pursuit XRs 5 C18 150 x 4.0 mm 1.9 ml
A6010150X040 Pursuit XRs 5 C8 150 x 4.0 mm 1.9 ml
A6020150X040 Pursuit XRs 5 Diphenyl 150 x 4.0 mm 1.9 ml
A6001125X046 Pursuit XRs 5 C18 125 x 4.6 mm 2.0 ml
A6001125X046 Pursuit XRs 5 C18 125 x 4.6 mm 2.1 ml
A6010125X046 Pursuit XRs 5 C8 125 x 4.6 mm 2.1 ml
A3030150C046 Pursuit 5 C8 S150X4.6 Col 2.5 ml
A3032150X046 Pursuit 10 C8 150 x 4.6 mm 2.5 ml
A3031150C046 Pursuit 3 C8, S150x4.6 Col 2.5 ml
A3031150X046 Pursuit 3 C8 150 x 4.6 mm 2.5 ml
A3031150R046 Pursuit 3 C8, S150x4.6 Repl 2.5 ml
A3041150X046 Pursuit 3 Diphenyl 150 x 4.6 mm 2.5 ml
A3040150C046 Pursuit 5 Diphenyl, S150X4.6 Col 2.5 ml
A7001150X046S Pursuit 3 PAH 150 x 4.6 mm conv. Column 2.5 ml
A7001150R046 Pursuit 3 PAH, S150 x 4.6 Repl. 2.5 ml
A3041150T046 Pursuit 3 Diphenyl, S150X4.6 Repl.3 2.5 ml
A3051150X046 Pursuit 3 PFP 150 x 4.6 mm 2.5 ml
A3030150X046 Pursuit 5 C8 150 x 4.6 mm 2.5 ml
A3040150X046 Pursuit 5 Diphenyl 150 x 4.6 mm 2.5 ml
A7001150R046 Pursuit 3 PAH, S150 x 4.6 Repl. 2.5 ml
A3050150X046 Pursuit 5 PFP 150 x 4.6 mm 2.5 ml
A6000150C046 Pursuit XRs 5-C18 S150 x 4.6 Col 2.5 ml
A6001150C046 Pursuit XRs 3-C18 S150 x 4.6 Col 2.5 ml
A6011150X046 Pursuit XRs 3 C8 150 x 4.6 mm 2.5 ml
A6021150X046 Pursuit XRs 3 Diphenyl 150 x 4.6 mm 2.5 ml
A6010150C046 Pursuit XRs 5-C8 S150 x 4.6 Col 2.5 ml
A6000150X046 Pursuit XRs 5 C18 150 x 4.6 mm 2.5 ml
A6010150X046 Pursuit XRs 5 C8 150 x 4.6 mm 2.5 ml
A7001150C046 Pursuit 3 PAH, S150 x 4.6 Col 2.5 ml
A7001150T046 Pursuit 5 PAH, S150 x 4.6 Repl.3 2.5 ml
A6020150X046 Pursuit XRs 5 Diphenyl 150 x 4.6 mm 2.5 ml
A7001150C046 Pursuit 3 PAH, S150 x 4.6 Col. 2.5 ml
A7001150T046 Pursuit 3 PAH, S150 x 4.6 Repl.3 2.5 ml
A6000150R046 Pursuit XRs 5-C18 S150 x 4.6 Repl. 2.5 ml
A3030250X040 Pursuit 5 C8 250 x 4.0 mm 3.1 ml
A6000250X040 Pursuit XRs 5 C18 250 x 4.0 mm 3.1 ml
A6010250X040 Pursuit XRs 5 C8 250 x 4.0 mm 3.1 ml
A3050200X046 Pursuit 5 PFP 200 x 4.6 mm 3.3 ml
A6000200X046 Pursuit XRs 5 C18 200 x 4.6 mm 3.3 ml
A3032050G100 Pursuit 10u C8 50 x 10.0 mm Guard 3.9 ml
A6002050G100 Pursuit XRs 10 C18 50 x 10.0 mm Guard 3.9 ml
A6000050DG100S Pursuit XRs 5 C18 Dynamax Guard ½ 3.9 ml
A6000050X100 Pursuit XRs 5 C18 50 x 10.0 mm 3.9 ml
A6000050G100 Pursuit XRs 5 C18 50 x 10.0 mm Guard 3.9 ml
A3030250C046 Pursuit 5 C8, S250x4.6 Col 4.2 ml
A3032250X046 Pursuit 10 C8 250 x 4.6 mm 4.2 ml

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Pursuit LC Columns with less than 10 ml ACN type solvent

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.3 Details of the supplier of the safety data sheet
Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS

1.4 Emergency telephone number
Emergency telephone number (with hours of operation)

SECTION 2: Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product’s directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
H225 FLAMMABLE LIQUIDS - Category 2
H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

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SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
- H225 - Highly flammable liquid and vapour.
- H319 - Causes serious eye irritation.

Precautionary statements

Prevention:
- P280 - Wear protective gloves. Wear eye or face protection.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

Response:
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Storage:
- P235 - Keep cool.

Disposal:
- P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients:
- No hazardous ingredient

Supplemental label elements:
- Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:
- Not applicable.

Special packaging requirements:
- Tactile warning of danger: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification:
- None known.

SECTION 3: Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product’s directions for use it may present potential health and safety hazards.

3.2 Mixtures:
- Mixture (encapsulated in article)

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Type</th>
</tr>
</thead>
</table>

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SECTION 3: Composition/information on ingredients

Contains: Organosilane bonded silica gel

Note: To the best of our knowledge, the acute and chronic toxicological properties of bonded silica gels have not been investigated. This product contains synthetic amorphous silica, and should not be confused with crystalline silica such as quartz, cristobalite, or tridymite, or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms of silica.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation watering redness
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- nitrogen oxides
- metal oxide/oxides
- cyanides

Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

5.3 Advice for firefighters

Special precautions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
SECTION 6: Accidental release measures

6.4 Reference to other sections
See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local regulations. Store in a segregated and approved area.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Danger criteria

<table>
<thead>
<tr>
<th>Category</th>
<th>Notification and MAPP threshold</th>
<th>Safety report threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>P5c: Flammable liquids 2 and 3 not falling under P5a or P5b</td>
<td>5000</td>
<td>50000</td>
</tr>
</tbody>
</table>

7.3 Specific end use(s)
Recommendations: Industrial applications, Professional applications.
Industrial sector specific solutions: Not applicable.

SECTION 8: Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 102 mg/m³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 40 ppm 8 hours. TWA: 68 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>
SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs
No DNELs/DMELs available.

PNECs
No PNECs available

8.2 Exposure controls

Appropriate engineering controls
Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**
- **Physical state**: Solid. (containing flammable liquid)
- **Colour**: White.
- **Odour**: Not available.
- **Odour threshold**: Not available.
- **pH**: Neutral.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: Closed cup: -18 to 23°C
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Contains: Flammable liquid
- **Upper/lower flammability or explosive limits**: Not available.
- **Vapour pressure**: Not available.
- **Vapour density**: Not available.
- **Relative density**: Not available.
- **Solubility(ies)**: Mobile phase: Soluble
  Stationary phase: Insoluble
- **Partition coefficient: n-octanol/water**: Not available.
- **Auto-ignition temperature**: Not available.
- **Decomposition temperature**: Not available.
- **Viscosity**: Not available.
- **Explosive properties**: Not available.
- **Oxidising properties**: Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:
  - oxidizing materials
  - Incompatible with hydrogen fluoride.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>17100 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2460 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>2083.3 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>4583.3 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapours)</td>
<td>45.83 mg/l</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 microliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity : Not available.

Specific target organ toxicity (single exposure) : Not available.

Specific target organ toxicity (repeated exposure) : Not available.

Aspiration hazard : Not available.

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : No specific data.

Eye contact : Adverse symptoms may include the following:
 pain or irritation
 watering
 redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure
SECTION 11: Toxicological information

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Potential chronic health effects:
- General: No known significant effects or critical hazards.
- Carcinogenicity: No known significant effects or critical hazards.
- Mutagenicity: No known significant effects or critical hazards.
- Teratogenicity: No known significant effects or critical hazards.
- Developmental effects: No known significant effects or critical hazards.
- Fertility effects: No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>Acute IC50 3685000 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3600000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1000000 μg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 100000 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 160000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>21 days</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
Not available.

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>-0.34</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil
- Soil/water partition coefficient (K_{OC}): Not available.
- Mobility: Not available.

12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Product: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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SECTION 13: Disposal considerations

**Hazardous waste**
- The classification of the product may meet the criteria for a hazardous waste.

**Packaging**
- **Methods of disposal**
  - The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

- **Special precautions**
  - This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

**Regulatory information**

- **ADR/RID / IMDG / IATA**
  - Not regulated.

- **Additional information**
  - **Special provisions**
    - A46

14.6 **Special precautions for user**
- **Transport within user’s premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 **Transport in bulk according to Annex II of Marpol and the IBC Code**
- Not available.

SECTION 15: Regulatory information

15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **EU Regulation (EC) No. 1907/2006 (REACH)**
  - **Annex XIV - List of substances subject to authorisation**
    - **Annex XIV**
      - None of the components are listed.
    - **Substances of very high concern**
      - None of the components are listed.
  - **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**
    - Not applicable.

- **Other EU regulations**
  - **Europe inventory**
    - All components are listed or exempted.
  - **Industrial emissions (integrated pollution prevention and control) - Air**
    - Listed
  - **Industrial emissions (integrated pollution prevention and control) - Water**
    - Listed
  - **Seveso Directive**

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SECTION 15: Regulatory information

This product is controlled under the Seveso Directive.

<table>
<thead>
<tr>
<th>Danger criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category</strong></td>
</tr>
<tr>
<td>P5c: Flammable liquids 2 and 3 not falling under P5a or P5b</td>
</tr>
</tbody>
</table>

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol (Annexes A, B, C, E)
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

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Pursuit LC Columns with less than 10 ml ACN type solvent

SECTION 16: Other information

Full text of abbreviated H statements:
- H225: Highly flammable liquid and vapour.
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.

Full text of classifications [CLP/GHS]:
- Acute Tox. 4, H302: ACUTE TOXICITY (oral) - Category 4
- Acute Tox. 4, H312: ACUTE TOXICITY (dermal) - Category 4
- Acute Tox. 4, H332: ACUTE TOXICITY (inhalation) - Category 4
- Eye Irrit. 2, H319: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- Flam. Liq. 2, H225: FLAMMABLE LIQUIDS - Category 2

Date of issue/Date of revision: 30/03/2016
Date of previous issue: No previous validation.
Version: 1

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