Corrositex Testing

In-Vitro Corrosivity Test for Transport - Class 8 Goods Outline

Determines chemical corrosivity and permits assignment of Packing Group classification for Class 8 corrosives.

This test replaces the rabbit test of dermal corrosivity by providing a reliable means of mimicking this test.

U.N. Packing Group classification

This can be determined or marketing claims substantiated.

Assignment

The appropriate U.N. Packing Group classification can now be assigned.

Recognitions

Department of Transportation - DOT-E 10904

Consumer Product Safety Commission (CPSC)

European Centre for the Validation of Alternative Methods (ECVAM)

EPA Federal Register / Vol. 60, No. 142 Dermal Corrosion

Food & Drug Administration (FDA)

International Air Transportation Association (IATA)

National Institute of Environmental Health Sciences (NIEHS)

Occupational Safety and Health Administration (OSHA)

Transport Canada - Permit For Equivalent Level of Safety SU 4483.

Sample Submission

30 to 50g/mL is required in well sealed bottle. Please do not include excess, due to disposal limits.

Clearly indicate the sample description as it is to appear on your test report.

Eurofins Dermatest Pty Ltd
20 - 22 King St
Rockdale NSW Australia
ph 61 2 9556 2601
info@dermatest.com.au
www.dermatest.com.au

Corrositex Testing

<table>
<thead>
<tr>
<th>Corrositex Category</th>
<th>Corrositex Time (minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrositex Category 1</td>
<td>0 to 3 min.</td>
</tr>
<tr>
<td>Corrositex Category 2</td>
<td>0 to 3 min.</td>
</tr>
<tr>
<td></td>
<td>&gt;3 to 60 min.</td>
</tr>
<tr>
<td></td>
<td>&gt;60 to 240 min.</td>
</tr>
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<td>&gt;240 min.</td>
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Qualification

The sample is first screened to determine suitability for the test.

Categorisation

Small aliquots of the test sample are placed into the Corrositex categorising testing system. The colour change gives the category assignment - Category I or II.

Test Principle

The Corrositex system consists of a glass vial filled with a chemical detection fluid capped by a freshly prepared proprietary bio-barrier membrane. The membrane is designed to mimic the effect of corrosives on living skin. As soon as the corrosive sample destroys this bio-barrier, the fluid below changes color or texture. The time taken for penetration through the membrane is determined.

UN Packing Group

<table>
<thead>
<tr>
<th>UN Packing Group</th>
<th>PG I</th>
<th>PG II</th>
<th>PG III</th>
<th>Non-corrosive</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS Skin Corrosion Category</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>GHS Skin Corrosion Sub-categories</td>
<td>Sub-category 1A</td>
<td>Sub-category 1B</td>
<td>Sub-category 1C</td>
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