



STEPS

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.

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.

Assignment

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

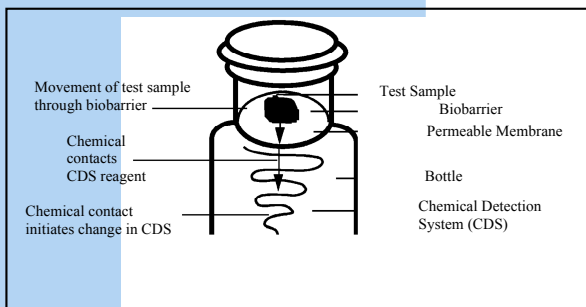
Recognitions

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.

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1. BIOBARRIER AND CHEMICAL

Corrositex Category	Corrositex Time (minutes)			
	0 to 3 min.	>3 to 60 min.	>60 to 240 min.	>240 min.
Corrositex Category 1	0 to 3 min.	>3 to 60 min.	>60 to 240 min.	>240 min.
Corrositex Category 2	0 to 3 min.	>3 to 30 min.	>30 to 60 min.	>60 min.

UN Packing Group	PG I	PG II	PG III	Non-corrosive
GHS Skin Corrosion Category	GHS Skin Corrosion Category 1			
GHS Skin Corrosion Sub-categories	Sub-category 1A	Sub-category 1B	Sub-category 1C	

2. CATEGORIES AND UN PACING GROUPS

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