

## PolySaf 5600 Polymer Safety Test Conditions and Results

The information presented here details the safety test results for PolySaf 5600 cationic polymer. Test methods and complete data for each test are available to customers upon request.

### Test: Hen's Egg Test/Chorioallantoic Membrane

Conducted by: Consumer Product Testing Company, February 6, 2008; according to Good Laboratory Practice principles

**Table 1 - HET-CAM Test Results**

Sample Material	4 CAM <sup>1</sup> Average Score <sup>2</sup>
PolySaf 5600 polymer; 40% active solution, 50% concentration	5.00
Commercial Baby Shampoo; 50% concentration	11.50
Commercial Baby Lotion; 50% concentration	1.75

<sup>1</sup>Average score from exposure to four CAM samples

<sup>2</sup>Irritation Potential – see Table 2

**Table 2 - Irritation Classification**

Score	Irritation Potential
0.0 – 4.9	Practically none
5.0 – 9.9	Slight
10.0 – 14.9	Moderate
15.0 – 32.0	Severe

**Conclusion:** Under the conditions of this test, the results indicate that a 40% active solution of PolySaf 5600 polymer at 100% concentration would have a slight ocular irritation potential *in vivo*.

### Test: MatTek Corporation EpiDerm\* Skin Model *In Vitro* Toxicity Test

Conducted by: Consumer Product Testing Company, February 7, 2008; according to Good Laboratory Practice principles

**Table 3 - MatTek Skin Model Toxicity Test Results**

Sample Material	Time to ET-50 <sup>3</sup>	Irritation
PolySaf 5600 polymer; 40% active solution, 100% concentration	24.0 hr.	Non-irritating
Triton X-100 Control; 1% concentration	8.4 hr.	Moderate to mild
Commercial Baby Shampoo; 10% concentration	11.9 hr.	Very mild

<sup>3</sup>Time to reach 50% viability

**Conclusion:** Under the conditions of this test, a 40% active solution of PolySaf 5600 polymer at 100% concentration has an expected *in vivo* dermal irritancy potential in the non-irritating range.

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## Test: Repeated Insult Patch Test

Conducted by: Consumer Product Testing Company, March 27, 2008; according to ICH Good Clinical Practice Guidelines

**Table 4 - Repeat Insult Patch Test Results**

Sample Material	Irritation Score
PolySāf 5600 polymer; 40% active solution, 100% concentration	
Induction phase: all subjects	0
Challenge phase: all subjects	0

**Conclusion:** Under the conditions of this study, a 40% active solution of PolySāf 5600 polymer at 100% concentration did not indicate a potential for dermal irritation or allergic contact sensitization.

## Learn More About PolySāf 5600 Polymer; Request a Sample

For product information or to request samples, contact Lisa Droste of Mallard Creek Polymers at 1-800-547-0622, ext. 1091 or visit [www.polysaf-polymers.com](http://www.polysaf-polymers.com).

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