



File Code: 5162
Date: September 16, 2010

Mr. Rob Rosovich
Gel Tech Solutions, Inc.
1460 Park Lane S. Suite 1
Jupiter, FL 33458

Hello Rob,

The mammalian toxicity tests on your water enhancer, GelTech FireIce, (formulation identification #00612/2008), have been completed in accordance with Forest Service Specification 5100-306a. Tests were performed on the concentrate and a 0.18 lb/gal dilution of the concentrate in water. Results are summarized in the attached table. A complete set of reports of the testing are being sent to you via surface mail.

Acute oral toxicity test results for the concentrate is greater than 505 mg/Kg and the dilution is greater than 5050 mg/Kg of body weight. The results for both concentrate and dilution are acceptable.

Acute dermal toxicity test results for both the concentrate and dilution are greater than 2020 mg/Kg of body weight. These results are acceptable.

Primary eye irritation test results for single-wash and double-wash eyes exposed to the concentrate are mildly and minimally irritating, respectively. The corresponding results for single-wash and double-wash eyes exposed to the dilution are minimally irritating for both. The results for all of the eye irritation tests are acceptable.

Primary dermal irritation test scores for the concentrate and dilution are 0.0 and 0.3, respectively. These results are acceptable.

If you have any questions related to this work, please contact me at 406-329-4859, or email at szylstra@fs.fed.us.

Sincerely,

Shirley Zylstra

SHIRLEY ZYLSTRA
Wildland Fire Chemical Systems

CC: K.Windell
C. Johnson



Table 1
Summary of Mammalian Toxicity Tests
GelTech FireIce
Formulation Identification # 00612/2008
Concentrate and mixed at 0.18 lb/gal

Concentrate	Requirements		Performance	
	Concentrate	Mixed Fire Chemical	Concentrate 10-HS-06	Mixed Fire Chemical 10-HS-07
Acute Oral Toxicity				
LD ₅₀ > 500 mg/Kg. If LD ₅₀ ≥ 50, but < 500, recommend protective gear and safe handling procedures. No LD ₅₀ ≤ 50 mg/Kg is acceptable	LD ₅₀ > 5000 mg/Kg	LD ₅₀ > 505 mg/Kg	LD ₅₀ > 5050 mg/Kg	
Acute Dermal Toxicity				
LD ₅₀ > 2000 mg/Kg. If LD ₅₀ ≥ 200, but < 2000, recommend protective gear and safe handling procedures. No LD ₅₀ ≤ 200 mg/Kg is acceptable	LD ₅₀ > 2000 mg/Kg	LD ₅₀ > 2020 mg/Kg	LD ₅₀ > 2020 mg/Kg	
Primary Eye Irritation – Single-wash Eyes				
Mildly irritating. If more irritating, recommend protective gear and safe handling procedures.	Mildly irritating.	Mildly irritating. Toxicity category III Irritation score: 14.7	Non-irritating. Toxicity category IV Irritation score: 0.0	
Primary Eye Irritation – Double-wash Eyes				
Mildly irritating. If more irritating, recommend protective gear and safe handling procedures.	Mildly irritating.	Minimally irritating. Toxicity category IV Irritation score: 2.0	Non-irritating. Toxicity category IV Irritation score: 0.0	
Primary Dermal Irritation				
Primary irritation score: < 5.0 If more irritating, recommend protective gear and safe handling procedures.	Primary irritation score: < 5.0	Primary irritation score: 0.0 Non-irritating Toxicity category: IV	Primary irritation score: 0.3 Slightly irritating Toxicity category: IV	