

**Memorandum**

Date: September 16, 2010
From: Chief, Chemical Hazards Assessment Staff, Office of Food Safety
Subject: Levels of Concern (LOC)s for Select Gulf Seafood Species
To: Don Kraemer
Acting Deputy Director
Center for Food Safety and Applied Nutrition

As per your request the following is the derivation of Levels of Concern (LOC)s for several Gulf of Mexico seafood species.

The LOCs are as follows:

	mg/g (parts per thousand)	or	mg/kg (parts per million)
Shrimp/crab	0.5		500
Oysters	0.5		500
Finfish	0.1		100

These were derived on the basis of the consumption estimates from the opening protocol for each species and an Acceptable Daily Intake (ADI) of 0.1 mg/kg bw /day and assuming an average adult body weight of 60 kg¹ for dioctyl sodium sulfosuccinate (DSS, CAS RN 577-11-7)). The ADI was derived by the Joint Expert Committee for Food Additives (JECFA) of the World Health Organization/Food and Agricultural Organization (WHO Technical Report Series: 859, Evaluation of certain food additives and contaminants. Forty-fourth report of the Joint FAO/WHO Expert Committee on Food Additives. World Health Organization, Rome 1995; <http://apps.who.int/ipsc/database/evaluations/chemical.aspx?chemID=954>) which is 5-fold lower than the FDA ADI (GRAS Notice, GRN 6; <http://www.accessdata.fda.gov/scripts/fcn/fcnDetailNavigation.cfm?rpt=grasListing&id=6>). If the FDA ADI is used the LOCs increase 5-fold.

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¹ An average adult body weight of 60 kg was used in determining the ADI for GRAS Notice (GRN) 6 and results in a more conservative estimate than the 80 kg body weight used for the reopening protocol.