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Chief, Chemical Hazards Assessment Staff. Office of Food Safety

Levels of Concern (LOC)s for Select Gulf Seafood Species

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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:

\[
\begin{array}{ccc}
\text{Shrimp/crab} & 0.5 & 500 \\
\text{Oysters} & 0.5 & 500 \\
\text{Finfish} & 0.1 & 100 \\
\end{array}
\]

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 kg \(^1\) 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 Exert 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.