

This is Provisional English translation of an excerpt from the original full report.

## **Risk Assessment Report Benfuresate (Pesticide)**

Food Safety Commission of Japan (FSCJ)  
November 2008

### **Executive summary**

The Food Safety Commission of Japan (FSCJ) conducted a risk assessments of “benfuresate” (CAS No. 68505-69-1), a benzofuranyl alkylsulfonate herbicide, using various study reports.

The study results used in the assessments are related to the *in vivo* fate tests in animals (rats and mice), *in vivo* fate tests in plants (wetland rice), fate tests in soil and water, soil residue, crop residue, acute toxicity (rats and mice), subacute toxicity (rats, mice, and dogs), chronic toxicity (dogs), chronic toxicity/carcinogenicity combined (rats), carcinogenicity (mice), 2-generation reproduction (rats), developmental toxicity (rats and rabbits), genotoxicity, etc.

Evaluating the results of safety studies on benfuresate indicated that its primary risk factor was to cause damage in kidneys. No carcinogenicity, teratogenicity, and genotoxicity were observed.

The lowest no bserved adverse effect level (NOAEL) obtained from the toxicity tests was 2.63 mg/kg body weight/day, in 2-year chronic toxicity studies in rats.

In conclusion, by applying the safety factor of 100, FSCJ determined the amount of daily intake (ADI) to be 0.026 mg/kg body weight/day for benfuresate.