

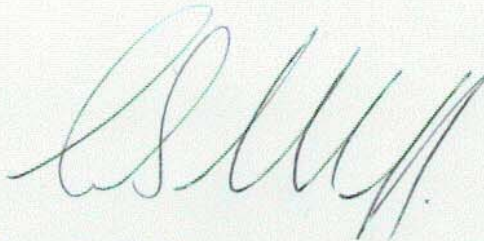
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March 30, 1999

Subject: Toxicological Testing of Kelsan Lubricant and Friction Modifier Products

In order to test their lubricant and friction modifier products for potential toxicity to aquatic life in freshwater ecosystems, Kelsan Technologies Corp. submitted samples to BC Research Inc. for acute aquatic toxicity testing. The lubricant (LCF), and friction modifiers, (HPF and VHPF) were evaluated using the 96 h Rainbow Trout acute bioassay in three forms, liquid, solid blocks and powder. The test results show that all of the normally prepared Kelsan products were non-toxic to fish at a concentration of 10000 mg/L. The LC50 values calculated were all >10000 mg/L (ppm) indicating that these products are practically non-toxic to fresh water fish.

The acute 96h Rainbow trout toxicity tests were conducted using the Environment Canada method EPS 1/RM/9. The products were prepared for testing as follows. The solid blocks weighed approximately 100 g each and were placed into 10 L of water in fish tanks four days prior to the start of the test. The liquid and powdered products were thoroughly mixed into solution prior to testing. For each test, a 100 g sample of liquid or powder was mixed with 3 L of water in a four litre container using a stir bar. The test solutions were mixed overnight and were then poured into glass aquaria, water was added to prepare a final concentration of 10,000 mg/L. All samples were tested in triplicate and one control was used per sample.



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