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ECOLOGICAL INFORMATION

Animal toxicity studies on blended Enviroseal LAS-320 have been carried out. We believe the fish toxicity studies done on our blend demonstrate it is as non-toxic as the individual emulsions which go into our blend. TABLE # 1 gives the results of our fish toxicity tests. In summary, these data show that the LC50 of Enviroseal LAS-320™ on goldfish is somewhere above 12,500 ppm. This is extremely low toxicity, especially in view of the legal requirement that chemicals must be labeled "toxic to fish" only if their LC50 is less than 1.0 ppm.

TABLE I FISH TOXICITY STUDIES

EMULSION NUMBER	TYPE OF FISH	HOURS	LC-50 PPM
W	Rainbow Trout	24	10,000
S	Rainbow Trout	96	8,950
W	Bluegill Sunfish	24	10,000
S	Bluegill Sunfish	96	5,640
W	Goldfish	24	4,200
S	Goldfish	24	7,500
B	Goldfish	24	10,000
D	Goldfish	24	13,400
C	Goldfish	24	13,400
Enviroseal Products as above	Goldfish	24	12,500 - 25,000
Enviroseal Products as above	Goldfish	48	12,500 - 25,000
Enviroseal Products as above	Goldfish	72	12,500 - 20,000
C	Goldfish	24	24,000
S	Goldfish	24	24,000

TABLE 2 ANIMAL TOXICITY STUDIES

EMULSION Enviroseal Products as above

Acute Oral- Rat LD50, mg/kg	>5,000	>5,000	>50,000	>5,000
Acute Dermal- Rabbit LD50, mg/kg	>5,000	>5,000	>5,000	>2,000 .
0-8 Scale, 8 = Most Severe	3,2	3.2	2.6	1.0
Eye Irritant- Rabbit	Sl-Mod.	S1	Sl-Mod.	----
Acute Inhalation (Aerosol)- Rat LC50, mg/liter-1 hour	>38	>9.56	>7.9	> 25 (4 hr.)
Repeated Insult Patch Test- Humans Irritant	Negative	Negative	Negative	Negative
Fatiguing Agent	Negative	Negative	Negative	Negative
Sensitizer	Negative	Negative	Negative	Negative

The aquatic 7-day LC50 for daphnids* was greater than 800 mg/L. The aquatic 7-day LC50 for trout was greater than 1000 mg/L. pH value 9.41 BOD value 4940 mg/l. COD value 952,000 mg/L * invertebrate species The LC50 values are approximately 10-fold higher than the EPA's lowest toxicity criteria, thus results obtained for Enviroseal M10+50 are approximately 10-fold less toxic than materials which minimally meet the 100 mg/L, "practically non-toxic", criteria established by the EPA. The data are consistent with those for compositionally similar acrylic emulsions. The data do not suggest there is a concern for adverse environmental impact from proper use or even inadvertent misuse of Enviroseal M10+50

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