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REVIEW NO.

DATE: IN 9/8/80 OUT 9/9/80

SUBMISSION PURPOSE Proposed state registration of forest site preparation
at 6# a.i./A, presently registered at 4.44# a.i./A

[illegible]

Riverside 912 Herbicide

100 Pesticide Label Information

100.1 Pesticide Use

Proposed state registration (24(c)) of forest site preparation for pine plantations.

100.2 Formulation Information

Monosodium acid methanearsonate (MSMA) 48%.

100.3 Application Methods, Directions, Rates

To control target species during site preparation before planting pine seedlings, apply 4 to 6 lbs. a.i. MSMA herbicide per acre (2 to 3 kg a.i. per hectare) in 5- to 15-gallon (19- to 57-liter) spray volume. Apply as an aerial or ground spray during the growing season. The best vegetation control results when a prescribed burn follows after the vegetation has had time to brown and dry (usually 7 to 10 days following the herbicide treatment). Observe adequate precautions to control spray drift. Observe all precautions on the Federal label.

100.4 Specific Use Sites

Forest site preparation areas only within the states of Alabama and Mississippi.

100.5 Target Organisms

For general vegetation control on site prepared areas including hardwoods such as southern red oak (Quercus falcata), black oak (Q. velutina), post oak (Q. stellata), water oak (Q. nigra), blackgum (Nyssa sylvatica), sweetgum (Liquidambar styraciflua), hickory (Carya spp.), etc; perennial shrubs such as sumac (Rhus sp.); and the numerous species of annual and perennial forbs and grasses that occupy recently cutover forest sites.

103 Toxicological Properties

Available toxicity tests show that MSMA is from slightly toxic to practically non-toxic to both fish and birds.

104 Hazard Assessment

104.1 Discussion

This herbicide would only be used during site preparation, and would not be used regularly to control vegetation in established pine plantations. Riverside 912 is presently registered for use with cotton, lawn and ornamental turf, agricultural planting (non-bearing

orchards), and non-crop areas such as right-of-ways and storage yards. Under the present label it may be applied with ground equipment at 4.44 lbs/acre. Under the proposed label, it would be applied by air at 6 lbs/acre. Additional activities of site preparation for pine plantations include clearcutting and controlled burning of the area after the vegetation has been killed.

104.2 Likelihood of Adverse Effects to Non-Target Organisms

It is not likely that this additional use will have an adverse effect on non-target organisms since the herbicide would not be applied regularly, and it is low in toxicity.

104.3 Endangered Species Consideration

It is not likely that this additional use will have an adverse effect on endangered species since the herbicide is low in toxicity, and since it would only be applied once during site preparation, and since the other activities of site preparation would probably drive all wildlife from the area before the herbicide was applied.

105 Conclusions

105.5 Recommendations

The Ecological Effects Branch does not object to this section 24(c) registration.

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