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Hydral AC-A Winter Grade 28
Acute Toxicity Screen

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✓ 69-146

The undiluted sample was classed as practically non-toxic when administered orally to mixed sex rats. The acute oral LD₅₀ was 10,250 mg/kg. Time to death was 12 hours to 2 days. Toxic signs were reduced appetite and activity, increasing weakness, collapse, and death. During the study it appeared that the sample was slightly more toxic to females than to males. Macroscopic examination of those that succumbed revealed slight liver discoloration, hemorrhagic lungs, and acute gastrointestinal inflammation. Macroscopic examination of those that were sacrificed revealed slight liver discoloration and areas of lung congestion in those receiving the higher doses, while those receiving the lower doses exhibited a normal viscera.

The undiluted sample was classed as slightly toxic when applied to and retained for 24 hours on the clipped intact skin of mixed sex rabbits. The acute minimal lethal dose was greater than 2000 but less than 3160 mg/kg. Time to death was 4 to 6 days. Toxic signs were greatly reduced appetite, lethargy, mild diarrhea, increasing weakness, collapse, and death. Macroscopic examination of those that succumbed revealed an enlarged gall bladder, hemorrhagic lungs; slight liver discoloration and acute gastrointestinal inflammation. Macroscopic examination of those that were sacrificed revealed, in some cases, areas of lung congestion and a slightly enlarged gall bladder.

The undiluted sample was classed as a mild irritant when applied to and retained for 24 hours on the clipped intact skin of mixed sex rabbits. Maximum irritation (2/8) occurred 24 hours after the sample was removed from the skin. The skin was normal (0/8) 96 hours after removal of the sample. The reaction at maximum irritation was well-defined erythema but no edema.

The undiluted sample was classed as a slight irritant when instilled and retained for 24 hours in the conjunctival sac of the rabbit eye. Maximum irritation (2/110) occurred at 1 hour of contact and consisted of slight erythema with no edema. The eye was normal at 24 hours of contact, at which time it was irrigated.

When male rats were exposed to the saturated vapors of the sample, at ambient temperature for 6 hours no deaths occurred. It was concluded that the vapors of this sample were practically non-toxic. Macroscopic examination of the sacrificed animals revealed a normal viscera.

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No special handling of this product appears necessary.

In case of excessive skin contact wash off with soap and water.

In case of accidental eye contact, flush out with water.

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