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HH0028-2008

### ABSTRACT FOR STUDY HH-0028-2008

#### TITLE: Inhalation Toxicity for F10 Superconcentrate Batch no. 100811

Determination of acute toxicity is usually an initial step in the assessment and evaluation of the toxic characteristics of a substance that may be inhaled such as a gas, volatile substance, or aerosol/particle. It provides information on health hazards likely to arise from short-term exposure by the inhalation route. Data from an acute study may serve as a basis for classification and labelling.

The Series 870 Health Effects test guidelines have been harmonized between OPP and OPPTS and, where possible, with OECD and South African test guidelines. This study was conducted according to EPA Guideline 870.1100 Acute Toxicity and 870.1300 Acute Inhalation Toxicity; August 1998, EPA 712-C-98-193 USA Printing Office.

As the toxicity of the test substance is known to be low, only one group of animals was exposed to a concentration > 2mg per litre air for 4 hours. The undiluted test substance was nebulised in a Medactive Clearway 1000 Nebulisor. Subsequently, observations of effects and death were made. At the conclusion of the study surviving animals were euthanized and necropsied. There were 10 animals (5 of each sex) in the treatment group

All animals showed signs of slight respiratory distress during the first hour of inhalation of the test substance. No animals died during the observation period. No macro pathology was observed in all the organs of all the animals.

This study indicated that the inhalation LC 50 for the test substance is above 2mg per litre. According to EPA Toxicity Categories this falls within category IV.

#### Toxicity Categories for Pesticide Products

	Category I	Category II	Category III	Category IV
Acute Inhalation	Up to and including 0.05mg/litre	>0.05 through 0.5 mg/litre	>0.5 through 2 mg/litre	>2 mg/liter

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