======Search Information======

Searched type: SMILES Searched input: CC=O Selected species: all Selected end point: all

======Chemical Information======

Name: Acetaldehyde

IUPAC name: acetaldehyde CAS number: 75-07-0

SMILES: CC=O

======Toxic Information======

LC50; Species: Anas platyrhynchos (Mallard duck) diet >5000 ppm for 8 days

LC50; Species: Colinus virginianus (Northern bobwhite) diet 808 (495.64-1091) ppm for 8 days

LC100; Species: Aphid 0.25% acetaldehyde for 2 hr (fumigation flask)

LC100; Species: Aphid 1.5-2.0% acetaldehyde for 2-3 hr (in air-tight jars)

EC50; Species: Pimephales promelas (Fathead minnow); Conditions: flow-through bioassasy with measured concentrations, 23.9 °C, dissolved oxygen 7.2 mg/L, hardness 53.0 mg/L calcium carbonate, alkalinity 43.2 mg/L calcium carbonate, and pH 7.63; Concentration: 30.8 mg/L for 96 hr (confidence limit 28.0-34.0 mg/L); Effect: loss of equilibrium

LC50; Species: Pimephales promelas (Fathead minnow); Conditions: flow-through bioassay with measured concentrations, 21.6 °C, dissolved oxygen 7.5 mg/L, hardness 46.6 mg/L calcium carbonate, alkalinity 40.5 mg/L calcium carbonate, and pH 7.1; Concentration: 37.2 mg/L for 96 hr (confidence limit 31.1-44.4 mg/L)

LC50; Species: Pimephales promelas (Fathead minnow) age 30 days, 0.076 g wet weight; Conditions: freshwater, static, 21.4 °C, pH 6.97, hardness 48.0 mg/L CaCO3, alkalinity 40.5 mg/L CaCO3, dissolved oxgyen 76.4%; Concentration: 43100 ug/L for 96 hr (95% confidence limit: 39800-46800 ug/L) /99% purity/

LC50; Species: Poecilia reticulata (Guppy) 10 laboratory-reared and acclimated fish, 2-3 months old; Conditions: semi-static; Concentration: 35 mg/L

LC50; Species: Lepomis macrochirus (Bluegill); Conditions: static; Concentration: 53

mg/L for 96 hr

LC50; Species: Lepomis macrochirus (Bluegill); Conditions: freshwater, static; Concentration: 2100 ug/L for 96 hr (95% confidence limit: 1800-2400 ug/L) /94.9% purity/

LC50; Species: Oncorhynchus mykiss (Rainbow trout); Conditions: freshwater, static; Concentration: 2200 ug/L for 96 hr (95% confidence limit: 1800-2400 ug/L) /94.9% purity/

EC50; Species: Daphnia magna (Waterflea); Conditions: static; Concentration: 42 mg/L for 48 hr; Effect: immobilization

EC50; Species: Chlorococcales (Green algae order); Conditions: freshwater, static; Concentration: 270000 ug/L for 24 hr; Effect: physiology, assimilation efficiency

EC50; Species: Pseudokirchneriella subcapitata (Green algae) exponential growth phase, 15000 cells/mL, UTEX 1648; Conditions: static, 24 °C, dissolved oxygen 1-2 mg/L; Concentration: 3359 ug/L for 48 hr; Effect: physiology, decreased photosynthesis

EC50; Species: Pseudokirchneriella subcapitata (Green algae) exponential growth phase, 15000 cells/mL, UTEX 1648; Conditions: static, 24 °C, dissolved oxygen 1-2 mg/L; Concentration: 4439 ug/L for 48 hr; Effect: decreased population growth rate

LC50; Species: Gammarus pseudolimnaeus (Scud) adult, 0.034 g wet weight; Conditions: freshwater, flow through, 21.6 °C, pH 7.05, hardness 46.6 mg/L CaCO3, alkalinity 58.0 mg/L CaCO3, dissolved oxygen 86%; Concentration: 19300 ug/L for 96 hr (95% confidence limit: 15000-24900 ug/L) /99% purity/

========Mass Spe	ectrum=======
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reference: http://www.hmdb.ca/spectra/ms_ms/1380

