

G098
Sodium Cyanide [143-33-9]

Results of Testing

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
Sodium Cyanide	143-33-9	EEATOX Avian dietary test	Non-TSCA Protocol/ Guideline (docket OPPTS-42118)	bobwhite	oral, 5 days	100, 178, 316, 562, 1000 mg/L	10	The LD ₅₀ value for the bobwhite was determined to be 705 mg/L. The no mortality concentration was 316 mg/L and the NOEL was 100 mg/L.	58 FR 48366; 9/15/93, Docket OPPTS-44601
Sodium Cyanide	143-33-9	EEATOX Avian dietary test	Non-TSCA Protocol/ Guideline (docket OPPTS-42118)	bobwhite and mallard ducks	oral, 5 days	100, 178, 316, 562, 1000 mg/L	10	The LD ₅₀ value was determined to be 340 mg/L. The no mortality concentration was 178 mg/L and the NOEL was < 100 mg/L.	58 FR 48366; 9/15/93, Docket OPPTS-44601
Sodium Cyanide	143-33-9	EFBIOC Plant uptake and translocation	40 CFR 797.2850	Alkali sacaton	irrigation, in sand, growth chamber	Sodium cyanide in water, pH 10.5	80 seeds per pot; 3 pots	Poor germination; mortality greater than 50% after two months with evidence of chlorosis and or necrosis.	received 12/27/94, Docket OPPTS- 42118
Sodium Cyanide	143-33-9	EFBIOC Plant uptake and translocation	40 CFR 797.2850	<i>Larrea tridentata</i>	irrigation, in sand, growth chamber	Sodium cyanide in water, pH 10.5	80 seeds per pot; 3 pots	Poor germination; mortality of 50% in 3 months and 80% mortality in 6 months with most developing chlorosis and or necrosis.	received 12/27/94, Docket OPPTS- 42118
Sodium Cyanide	143-33-9	EFTSPT Soil and sediment adsorption	40 CFR 796.2750	Not applicable	Not applicable	Not applicable	Not applicable	The Freundlich plot of the absorption isotherm data resulted in values for the empirical constants 2/n and log K _d of 0.636 and 1.30, respectively. The distribution coefficients (K _d), in terms of equilibrium concentrations, ranged from 5.04 to 14.5. The effects of metal chelation and/or biotransformation were not considered in the quantitation and calculations. Excluding these mechanisms, the data suggest CN is tightly bound to soil and hence immobile	58 FR 40427; 7/28/93, Docket OPPTS-44600