

Perfette
8.18.82

$$1 \text{ acre-foot of } H_2O = 1.235 \times 10^6 \text{ kg} \text{ or } \frac{2.717 \times 10^6 \text{ lb}}{45.5}$$

1.5 gallons of formulation/acre maximum application rate

0.4 mg/kg of Nitroso-glyphosate in formulation.

$$1.5 \text{ gallons formulation/acre} \times 9.75 \frac{\text{lb formulation}}{\text{gallon formulation}} = 14.63 \frac{\text{lb}}{\text{ac}}$$

Consider a worst case of a 1 acre still pond 1 ft deep with the total surface treated.

$$14.63 \frac{\text{lb of form}}{\text{ac}} \times \frac{1 \text{ kg of form}}{2.2 \text{ lb of form}} = 6.65 \frac{\text{kg of formulation}}{\text{acre}}$$

$$0.4 \frac{\text{mg NN6}}{\text{kg of form}} \times 6.65 \frac{\text{kg of formulation}}{\text{acre}} = 2.66 \frac{\text{mg NN6}}{\text{acre}}$$

$$1.235 \times 10^6 \frac{\text{kg } H_2O}{\text{acre-foot}} \times 1 \text{ acre} \times 1 \text{ ft} = 1.235 \times 10^6 \text{ kg } H_2O \text{ in pond}$$

$$\frac{2.66 \text{ mg NN6 applied}}{1.235 \times 10^6 \text{ kg } H_2O \text{ in pond}} = 2.15 \times 10^{-6} \text{ ppm} = 2.15 \text{ ppt } \pm 70\% \text{ initially in } H_2O \text{ in worst case.}$$

(0.5 mg/kg
2.15 ppt)