

# CNY ENVIRONMENTAL INSTITUTE, INC.

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## Important Lead Values and Units

### Units of Measurement

- $\mu\text{g}/\text{ft}^2$  – micrograms per square foot.
- ppm – parts per million by weight (10,000 ppm = 1 percent), equivalent to  $\mu\text{g}/\text{g}$ .
- ppb – parts per billion by weight (1,000 ppb = 1 ppm).
- $\mu\text{g}/\text{g}$  – micrograms per gram of sample, equivalent to ppm by weight.
- Percent – percent by weight, usually used for paint (1 percent = 10,000  $\mu\text{g}/\text{g}$ ).
- $\text{mg}/\text{cm}^2$  – milligrams per square centimeter, used for paint
- $\mu\text{g}/\text{m}^3$  – micrograms per cubic meter, used for air.
- $\mu\text{g}/\text{dL}$  – micrograms per deciliter, used for blood.

### Federal Lead Standards

#### Paint

- 1.0  $\text{mg}/\text{cm}^2$  or 5,000  $\mu\text{g}/\text{g}$  (0.5 percent).

#### Lead Dust Levels for Risk Assessments (by wipe sampling)

- 40  $\mu\text{g}/\text{ft}^2$  – floors (carpeted and uncarpeted).
- 250  $\mu\text{g}/\text{ft}^2$  – interior window sills.

#### Dust Levels for Lead Hazard Screen Only

- 25  $\mu\text{g}/\text{ft}^2$  – floors.
- 125  $\mu\text{g}/\text{ft}^2$  – interior window sills.

### Leaded Dust Clearance Levels (by wipe sampling)

- 40  $\mu\text{g}/\text{ft}^2$  – floors (includes carpeted and uncarpeted floors.)
- 250  $\mu\text{g}/\text{ft}^2$  – interior window sills.
- 400  $\mu\text{g}/\text{ft}^2$  – window troughs.

### Bare Residential Soil

- 5,000  $\mu\text{g}/\text{g}$  – paving or removal criteria.
- 1,200  $\mu\text{g}/\text{g}$  – building perimeter and yard
- 400  $\mu\text{g}/\text{g}$  – play areas and high-contact areas for children.

### Airborne Lead Particulate

- 30  $\mu\text{g}/\text{m}^3$  – OSHA action level (8-hour, time-weighted average).
- 50  $\mu\text{g}/\text{m}^3$  – OSHA permissible exposure limit (8-hour, time-weighted average).

### TCLP (Toxicity Characterizing Leachate Procedure)

- 5.0 ppm or greater - Hazardous Waste

### BLOOD LEAD LEVELS

#### Children set by Center for Disease Control and Prevention (CDC)

- 10  $\mu\text{g}/\text{dL}$  - Level of Concern for.
- 20  $\mu\text{g}/\text{dL}$  – Child is poisoned.

#### For the Worker

- 40  $\mu\text{g}/\text{dL}$  – OSHA allowable lead level
- 50  $\mu\text{g}/\text{dL}$  – Medical removal

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