



OFFICE OF THE  
**AGRICULTURAL COMMISSIONER**  
**SEALER OF WEIGHTS & MEASURES**

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## Closed Mixing Systems Regulations

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Closed mixing systems are engineering controls used to protect employees from dermal hazards when mixing pesticides with high acute dermal toxicity. The dermal toxicity of a pesticide is determined by the precautionary statements on the label. Closed mixing systems are now divided into two distinct categories, Tier 1 and Tier 2 mixing system.

#### **TIER 1 CLOSED MIXING SYSTEM**

**Label dermal statement:** *“Fatal if absorbed through skin”*

**System design:** Requires the transfer of the pesticide from the original container and triple rinse the container within the closed system.

**Examples:** K-Pam HL  
MSR Spray Concentrate  
Telone II

#### **TIER 2 CLOSED MIXING SYSTEM**

**Label dermal statement:** *“May be fatal if absorbed through skin”*  
or *“Corrosive, causes skin damage”*

**System design:** Requires the transfer of the pesticide from the original container only; does not require the container to be triple rinsed within the closed system.

**Examples:** Ethephon  
Rely (Glufosinate)  
Sonalan

**There are variations between labels due to inert ingredients which may result in similar products requiring a closed system while others do not. Review all labels prior to employees mixing pesticides and have an approved closed mixing system if necessary.**

Employees must be trained on how to use the closed system and have a copy of the written operating instructions available for review. Employees must wear safety glasses when operating a closed mixing system as well as all other label and regulatory required personal protection equipment.

If you have any questions, please contact this office for clarification.