

South Carolina Department of Labor, Licensing and Regulation  
Division of Labor  
Office of Occupational Safety and Health  
Columbia, South Carolina 29211

**OSH Program Directive Number 88-1910.177-1 (REVISED)**

**Subject:** Clarification of Subarticle 6, Section 1910.177 in relation to Restraining Devices used with Multi-Piece and Single Piece Rim Wheels.

**Standard:** Subarticle 6, Section 1910.177 (d) (1), (d) (2), (d) (3) (i), (ii), (iii) and (iv), Rules and Regulations, Commissioner of Labor, State of South Carolina.

**Cross Reference to Federal Standards:** 29 CFR 1910.177 (d) (1), (d) (2), (d) (3) (i), (ii), (iii) and (iv).

**Background:** An inquiry was made to Federal OSHA regarding the acceptability of chains as restraining devices when used with multi-piece and single piece rim wheels. This directive clarifies the use of chains in this regard.

**Interpretation:** A chain is not specifically designed for constraining multi-piece and single piece rim wheel components during an explosive separation and, by itself, does not meet the intent of the standard and should not be used to protect employees. However, the use of chain as one component of a specifically designed device to restrain multi-piece and single piece rim wheels would be acceptable. The size as well as the type of chain used must meet the requirements of the design engineer or manufacturer. The rating of different sizes of chains for use on different size tires at different tire pressures would not ensure employer compliance with Section 1910.177 (d); the capacity and use of the chain system as recommended by the design engineer or manufacturer is necessary. The standard requires the employer to provide a restraining device specifically designed to constrain multi-piece and single piece rim wheels covered under this standard.

William M. Lybrand, Director  
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