



# FIRE SAFETY

## Case Study – Sprinkler System Manufacturer. Industry: Fire Safety

**Problem:** The steel tubing used by this customer is imported from China. As such the steel tubing is shipped untreated across the ocean in containers and is quite rusty by the time it reaches its destination in Hamilton, On. The tubing then sits for some time before being used and the corrosion gets worse and worse.

**Effect:** The corrosion on the pipe makes it difficult to use for it's intended purpose as well as causing loss of structural strength to the steel as the corrosion eats away so much of the steel itself. This causes waste of steel and money as well as time and storage space.

**Recommendation:** It was recommended that the customer try switching to Krown KL-73 Corrosion Inhibitor. At the time the customer was using a combination of Lynn seed oil and solvent to coat the rods creating environmental, health and safety concerns due to the presence of VOCs in the solvent and it extremely flammable nature.

**Result:** The KL-73 is better able to help lift the existing red rust and leave clean steel behind. As well, the corrosion is stopped in its tracks thereby saving waste and eliminating repetitive applications necessary with the old method.

### **Cost Saving:**

Scrapped Steel from corrosion: \$75 000.00/year  
Labor reapplying ineffective product repeatedly 2 hours/month @  
\$35/hour=\$840  
Storage space saved not having to carry as much inventory due to  
losing less to corrosion.

**Total Cost saving:** \$76 000.00 per year plus storage space and overhead on extra tubing.