

About 70% of the million of annual world accidental burns are due to unsafe kerosene oil lamps. About 60% of the victims are infants and children out of 6,500 deaths due to accidental burns in Sri Lanka.

The simple kerosene oil lamp currently in use will not extinguish flame when dropped or turned aside but releases kerosene oil exacerbates fire. Two main inventions have been introduced to overcome this shortcoming. One invention has a safety wick holder unit where an outer tube has been designed as the wick holder. A small weight fitted to the bottom of this tube moves out and cutoff air when the lamp turns its side.

In the second invention, hazard arrested cone is fitted to the opening of kerosene oil container to prevent the oil drain out with a length or  $2/3$  of the container height and only the remaining  $1/3$  of the container is filled up with oil.

The materials used are empty condense milk cans and three washers. The test results indicated 100% success. Flame extinguished instantly when the lamp turned on its side, Though the kerosene oil container has no lid, Kerosene oil will not spill in any position. This principle is true for cylindrical or globe shaped containers fixed with a cone in length not less than  $2/3$  of its height. Cone diameter at the large end should not exceed 0.4 of diameter of the fixing face and small end diameter should not exceed 0.2 of the fixing face.