



Road Flare Safety

Toolbox Talk Lesson Plan

Highway safety flares burn at approximately 70 candelas. By comparison, chemiluminescent light sticks are approximately 10 candelas and a typical flashlight is 5 candelas. D.O.T. classifies flares as a flammable solid but they are not particularly sensitive to initiation. *There is no threat of mass or individual explosion. Flares should be stored in a cool, dry place away from excessive heat (above 167° F), sparks, or flames. While flares have no expiration date when properly stored, storage above 120° F for long period of time (over 1 week) should be avoided. Normal recommended storage temperatures are 40° to 90° F. To preserve the reliability and performance characteristics of flares, do not expose the units to water for periods longer than 10 minutes.*

Where to use emergency flares

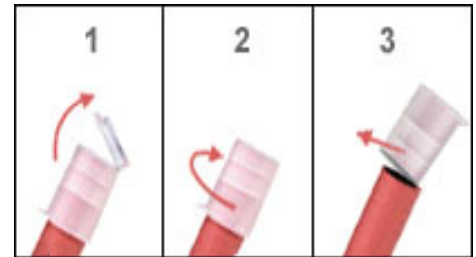
On a Straight: Place one flare at least 300 feet behind the stalled car. Place a second flare 10 feet behind the stalled car.

On a Curve: To provide early warning, place one flare around the curve, 300 feet behind the car. Place a second flare 10 feet behind the stalled car.

On a Hill: Place one flare on the top of the hill, on the blind or far side, 300 feet behind the stalled car. Place a second flare 10 feet behind the stalled car.

Emergency flares are easy and safe to use.

1. Remove plastic lid to expose scratch surface cap.
2. Twist and remove cap, exposing flare igniter button.
3. Gently strike scratch surface of cap against black button of flare (similar to striking a match), while pointing away from face and body.



TIPS on safe and effective flare use

- Never light flares in the presence of spilled flammables or where there are vapors emitting from the vehicle.
- Light the first flare, placing it at least 10 feet behind the vehicle. Normal rain and wind will not affect the flares' performance, but be sure not to immerse flame in a puddle of water.
- Light the second flare. Walk with it, holding the flare away from your body, to a spot some 300 feet behind the vehicle. Place flare on ground. (Carrying the lit flare will help protect you from oncoming traffic.)
- If on a two lane road, place a third flare at least 10 feet in front of the vehicle, to warn traffic passing in the opposite direction - or keep the third flare as a spare in case you are stalled for more than 15 minutes. For longer emergencies, flares may be stacked to provide additional warning time. Place lighted flare on the ground, then uncapped the second flare and place it on the non-burning end of the first flare to form an "L". The second flare will light automatically as the first flare burns down to provide a full 30 minutes of protection.

Before leaving the scene, make sure that lit flares have burned completely. If not and the remaining flare length permits, extinguish them by tapping the burning end on the pavement, separating the burning portion from the rest of the flare. Never extinguish by stepping on the flare.

This lesson plan is intended for general information purposes only. It should not be construed as legal advice or legal opinion regarding any specific or factual situation. Always follow your organization's policies and procedures as presented by your manager or supervisor. For further information regarding this bulletin, please contact your Safety Director at 877.398.3046.