

# Orion Safety Flare Deployment & Safety Guide

**STOPPING DISTANCE = PERCEPTION/REACTION DISTANCE + BRAKING/SKIDDING DISTANCE**

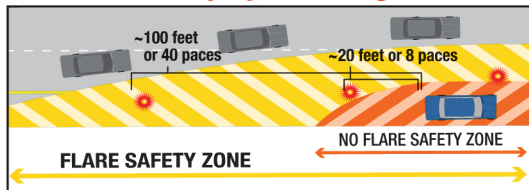
The primary purpose of flares includes the following:

- Alert approaching motorists to your emergency situation
- Generate a cautionary response from passing motorists (slow down, move away)
- Channel/direct traffic away from you and your vehicle
- Create a **Safety No Go Zone** around you and your vehicle

There is no single placement guideline that will work in all situations—consider your surroundings and adjust accordingly. Factors that can affect ability of approaching motorists to see your flare pattern:

- Posted speed on roadway (the higher the speed the farther back you should locate flares)
- Weather and light conditions (rain and/or low light can obscure visibility—slow initial braking reaction)
- Surface conditions (wet pavement or asphalt can be slick affecting braking/skidding distances)
- Hills and curves (can affect sight lines between approaching traffic and your flares)

## Flare Deployment Diagram



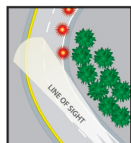
Depending on conditions (curve or hill) consider a flare placement 20 feet or 8 paces in front of vehicle.

### Flare Facts:

- Flares create a **No Go Zone** equal to that created by a police cruiser with a light bar activated
- Safety response in passing traffic improves as more flares are deployed
- Increasing the **No Go Zone** will save lives. Protect you and your family!

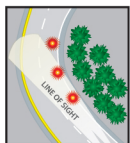
## Special Deployment Considerations

**HORIZONTAL VIEW OBSTRUCTIONS** can greatly impact where you establish your flares and often are not properly considered. Adequate sight distance is critical for approaching traffic to recognize the presence of the hazard.



### IMPROPER PLACEMENT

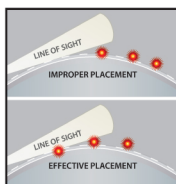
Advance warning flares are not within drivers line of sight.



### EFFECTIVE PLACEMENT

When flares are moved into the line of sight of approaching drivers, they can take corrective action.

**VERTICAL OBSTRUCTIONS** equally impact locations of flares.



### VERTICAL OBSTRUCTION (PROFILE)

Sight distance must be sufficient for approaching driver to take corrective action.

**Note: All use instructions and warnings on your flares should be read before an incident occurs.**

## Supplemental Training Resources

Visit [orionsignals.com/overview.html](http://orionsignals.com/overview.html) to learn more about proper lighting, handling and storage of Orion Flares.

## Important Safety Information

This product contains at least one (1) RED EMERGENCY FLARE ("FLARE"). FLARES present unique hazards because they burn at very high temperature and are manufactured with energetic chemicals (see SDS for FLARES at [www.orionsignals.com/sds-sheets.html](http://www.orionsignals.com/sds-sheets.html)). Please read the following safety information thoroughly before storing or using your FLARES.

## Flare Primary Hazard

- CAUTION: FLARES PRODUCE HOT FLAME

## Precautionary Statements

- Keep out of reach of children
- Avoid sparks and open flames (to prevent FLARE ignition)
- For outdoor use on pavement only
- Avoid food, drinking or smoking when using
- Eye protection recommended
- Extinguish only with water
- Activated FLARE may emit sparks or liquid ash – angle burning FLARE down to avoid dripping on hand
- Keep burning FLARE away from spilled fuel, fumes or other flammable materials. Special care should be taken in dry and/or high wind environments to assure flare does not contact/ignite combustible materials
- FLARE flame is very hot, will ignite combustible materials on contact and will cause severe burns if contacted with skin/clothing
- Stand with back to wind. Always point FLARE away from face and body when igniting and afterwards
- Follow all lighting instructions printed on FLARE tube/body and reprinted below

## Use Instructions

1. Hold flare below line. Remove top lid on cap to expose scratch sticker.



2. Twist and remove cap, exposing ignitor button.



3. While gently pressing black ignitor button against scratch sticker on cap, strike quickly away from face and body. Aim downward.



4. For anti-roll device, push cap onto bottom of flare.

5. Immediately place (do not drop) lighted flare on pavement away from combustible materials. Burning end of flare should be pointed down away from hand.

## First Aid

- Skin: wash with soap and water if FLARE powder contacts skin
- Eyes: flush with plenty of water if FLARE powder contacts eyes
- Inhalation: seek fresh air if FLARE fumes breathed in (avoid breathing fumes)
- If any respiratory or irritation conditions (skin or eyes) exist after initial first aid, consult physician or review product at [www.orionsignals.com/sds-sheets.html](http://www.orionsignals.com/sds-sheets.html)

## Storage Information

- Store FLARES in a sealed bag away from flame and heat
- Failure to store FLARES in closed bag will diminish FLARE performance