CMC BurnSafe™

Instructions

The BurnSafe™ is essentially a double walled container constructed of aluminum. It is designed to contain the flames inside the inner chamber thereby reducing the probability of starting a fire.

The BurnSafe™ weighs approximately 8 pounds and can easily be deployed by one tactical officer. The weight allows the user to successfully penetrate windows, screens, and glass doors.

The BurnSafe™ allows the introduction of significant amounts of pyrotechnic non-lethal chemical agent into the target, which increases the probability of a successful resolution.

The use of pyrotechnic agents is a more effective non-lethal method of penetrating a fortified structure.

The use of the BurnSafe™ will increase your team’s effectiveness and provide you with an alternative delivery system.

Safety Considerations

Only personnel who have been trained in a state approved non-lethal chemical agent’s course, a manufacturer’s non-lethal chemical agent’s course and in the proper use of the BurnSafe™ should be involved in loading, unloading, deployment and maintenance of the BurnSafe™.

Once the BurnSafe™ has been used, the tools are contaminated with chemical agent residue. Only trained personnel wearing an approved gas mask and protective gloves should handle the expended device(s) and tools.

Never store the BurnSafe™ with a live chemical agent device inside.

Due to the cross contamination potential of the BurnSafe™, after use, the person transporting the contaminated tool and used device(s) should use a sealed container to transport. Only trained personnel should transport the tool and device(s) to a safe and secure area for decontamination and/or disposal.

Under no circumstances should the BurnSafe™ be used in situations where a suspected flammable or combustible atmosphere exists. Questions regarding the combustibility of various flammable atmospheres should be directed to local fire department personnel before deploying with any of our tools.

The best method for deploying the BurnSafe™ is to conduct an accurate target analysis of the structure for effective and safe deployment. If you cannot determine where the BurnSafe™ will land then you must consider the consequences for potential injury or fire.

Never load any type of smoke grenade into the BurnSafe™. Smoke grenades generally emit a far larger amount of smoke at a higher heat than pyrotechnic non-lethal chemical agents. Because of this smoke grenades may exceed the safety limits of the tool.

Use only recommended pyrotechnic non-lethal chemical devices. If in doubt contact the manufacturer before using. The payload or charge in pyrotechnic chemical agent devices varies from year to year. Verify the charge from the Material Safety Data Sheet (MSDS) sent with the devices.
Do not deploy excessive amounts of non-lethal chemical agents into confined spaces. Pyrotechnic devices can create high levels of toxic smoke if not used properly.

**Loading**

Locate a safe and secure area away from bystanders and personnel where you and your safety person can focus your attention on the job at hand. Make sure you are downwind from the majority of personnel and bystanders in the area.

Both the safety person and the operator should wear an approved respirator and safety gloves.

Remove the cap assembly from the BurnSafe™. Inspect the tool for rust, cracks or blockages in the emission ports.

Inspect the fuse cap attachment points for rust debris or blockages. Inspect the body of the BurnSafe™ for defects, cracks or rust.

Note: In the event the Cap Assembly is damaged, the Cap Assemblies of the Gas Ram™ and Burn Safe™ are interchangeable.

Lubricate all threads of the device before usage (main body and fuse head). We recommend FrogLube™. Failure to lube threads can cause galling, rendering unit useless.

Use only approved pyrotechnic devices. Never use a blast type device or a smoke grenade in a BurnSafe™.

Unscrew the fuse of an approved pyrotechnic device keeping the grenade vertical to minimize loss of chemical agent. Turning the grenade upside down with the fuse removed may result in loss of chemical agent payload and contaminate the area you are working in. Set the grenade body down in a secure area with the fuse opening upright.

With the BurnSafe™ cut the spoon handle off as close as possible to the fuse head safety pin with the diagonal cutters. You may bend the spoon instead of cutting.

Do not straighten out or prep the pin. Screw the fuse into the cap assembly and hand tighten only.

Keeping both the cap assembly and the grenade body vertical and in an upright position, slowly thread the grenade onto the inside nipple of the cap. Hand tighten the grenade onto the nipple.

Guide the attached grenade body/cap assembly into the BurnSafe™. Hand tighten the cap assembly at least 4-5 turns onto the body of the BurnSafe™.

Attach a carabiner with retrieval line to the D-ring attachment point if required.

Depending on the manufacturer, prep the pin by either rotating or straightening out the cotter pin, just prior to deployment of the device.

Determine if any combustible or flammable materials are present as in a drug lab. Is the natural gas turned off? Has the suspect created a combustible environment by pouring out flammable liquid, or turned on natural or propane gas? If so reevaluate your tactics to compensate for the increased danger.

**Deployment**

Have a predetermined approach and retreat plan to and from the target using cover and concealment. Have a predetermined primary and secondary breach point.

Have as many cover officers as needed to address threat areas. Utilize ballistic shields or vehicles for cover as necessary.

Look to see where the device will land. Avoid deploying it on combustible material if possible. Have a retrieval line attached to the D ring attachment point if necessary.

Remove the pin and observe the spoon fly off. Make sure that the device has ignited before deploying it in the predetermined area.

Determine if any combustible or flammable materials are present as in a drug lab. Is the natural gas turned off? Has the suspect created a combustible environment by pouring out flammable liquid, or turned on natural or propane gas? If so reevaluate your tactics to compensate for the increased danger.

**Maintenance**

The BurnSafe™ has a limited five (5) year warranty. After five years the tool should be removed from service. Each tool is dated and serialized to assist in maintaining records.

All CMC products need to be kept in a clean and ready to use state. As the threads on the BurnSafe™ get hot they will become very hard to turn unless they have
been treated with a lubricant that will stand up to the generated heat, like an anti-seizing compound. We have shipped FrogLube™ with your device and recommend that the device be treated regularly with the product.

High temperature, corrosion and the amount of pyrotechnic devices used in the BurnSafe™, will affect the useful life expectancy of the tool, especially if it is not cleaned immediately after each deployment.

After using the BurnSafe™, when the device is still warm, not hot, is a good time to apply FrogLube™ into the threads as the heat will accelerate the absorption into the voids of the metal. If you treat your devices while they are still warm, use proper protection consisting of a respirator and heat resistant gloves. The threads of both the chamber and fuse of the BurnSafe™ should be clean and well lubricated before and after deployment.

After treatment, you should notice a marked reduction in friction. It is not necessary to do this after every use, but should be done before storing and at regular intervals. You should ensure that the excess FrogLube™ is removed by wiping with a clean cloth.

The BurnSafe™ should be cleaned with a high pressure, high temperature automotive steam cleaner utilizing a soap mixture. The recommended temperature for the steam cleaner is 220 degrees Fahrenheit.

If this isn’t available you can use an automobile degreasing liquid.

All traces of contaminates must be removed. The sooner the tool is cleaned, the better it will minimize the possibility of corrosion and rust.

The tools should be thoroughly dried before storage and covered with a thin film of FrogLube™ or another rust preventative lubricant. The threads should be coated with FrogLube™ or another protective coating of anti-seize lubricant.

It is necessary to periodically inspect both the BurnSafe™ to maintain operational readiness. It is recommended that trained personnel inspect both devices on a monthly basis. A record of inspection should be kept.

Training
All users of CMC products must be trained before use. The California Tactical Officer’s Association offers a class for chemical agent instructors that teaches officers how to use CMC products. An on-line class is offered at www.CAinstructor.com. Training classes on CMC products can be arranged for your agency by calling (760) 845-8062.
## Recommended Munitions

Never use Smoke or Blasting Grenades in the BurnSafe™

### Combined Tactical Systems
- **Indoor 52 Series Baffled Grenades**
  - Model#: 5220B-CN
  - Model#: 5230B-CS
- **Outdoor 52 Series Grenades**
  - Model#: 5220-CN
  - Model#: 5230-CS
- **Outdoor 52 Series Jet Lite Grenades**
  - Model#: 5220JL-CN
  - Model#: 5230JL-CS
- **Outdoor 62 Series Grenades**
  - Model#: 6220-CN
  - Model#: 6230-CS
- **Outdoor 82 Series Grenades**
  - Model#: 8220-CN
  - Model#: 8230-CS
- **Outdoor 92 Series Grenades**
  - Model#: 9220-CN
  - Model#: 9230-CS

### Safariland
- **Pocket Tactical Grenade**
  - Model#: 1015 CN
  - Model#: 1016 CS
- **Han-Ball™ Grenade**
  - Model#: 1091-CN
  - Model#: 1092-CS
- **Continuous Discharge Grenade**
  - Model#: 1082-CS
  - Model#: 1081 - CN

### Amtec Less Lethal Systems (ALS)
- **Baffled Triple Chamber Grenade**
  - Model# - ALSG2278-CS
- **Pocket Grenade**
  - Model# - ALSG278-CS
- **Handball Grenade**
  - Model# - ALSG274-CS
- **Continuous Discharge Grenade**
  - Model# - ALSG272-CS

## Disclaimer
The manufacturer does not and will not accept any liability, either expressed or implied, for results of damage, injury or death arising from or alleged to have arisen from the use of the BurnSafe™. The user assumes all liability for damage, injury or death arising from the use of the BurnSafe™. The use of the BurnSafe™ requires that the user have specific training and education in the use of Non-lethal chemical agents. The user is specifically warned to monitor lethal concentration times. LCT™ must be calculated and monitored in enclosed environments to avoid injury or death by minimizing time of exposure. Further it is clearly stated that the introduction of a pyrotechnic device into a situation where such a device would not previously have been used raises the likelihood that fire, injury and death could occur due to its use. The BurnSafe™ is intended to reduce the exit temperature of pyrotechnic non-lethal chemical agent and therefore reduce the chance of fire. The manufacturer has no control over the circumstances encountered in the deployment of any device.

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