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2076 James River Court

Nixa, Missouri 65714



Butane Burner #BTN-01

CE 1336-23

Warning:

- Not a toy; use only in a laboratory or educational setting.
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- California Proposition 65

 Warning: This product can expose you to chemicals including lead, nickel, which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
- Category: direct pressure butane and propane mix
- Only use in well ventilated areas
- Consumption rate: 36.4 g/hr (0.5kW)
- Read the instructions before using the applicance
- Flame guard may become very hot
- Keep away from children





Introduction

The ability to control and direct heat in the lab is essential to many experiments. Many lab burners are tethered to large fuel tanks and lack mobility. Your butane burner, however, is a small portable unit that carriers its own refillable fuel tank in its tip-resistant base. It is built with a simple ignition design and can create an adjustable flame with an approximate maximum temperature of $1300^{\circ C}$ (2450°F) that will burn between 40 and 60 minutes on a single tank of butane.

Safety Precautions

- Device is only to be used on a flat plane surface.
- Butane gas is extremely flammable, handle with care.
- Under no circumstances should you attempt to manipulate or repair a damaged burner.
- Do not touch the cover while the flame is burning or when it is hot.
- Do not touch the flame head and the ignition pin at the same time
- Keep the burner away from face, body, and clothing when igniting and operating.
- Do not store under direct sunlight or any place where temperature will exceed 40°C (140°F).
- Do not immerse in water.
- Do not leave the burner unattended while it is in operating mode
- Make sure the regulator is firmly closed and the flame is completely extinguished after each use.
- The bottom of the pan should be at least 3 cm above the burner.
- Never chill the gas burner before filling.
- Do not put the burner under closed stove frames.
- Store and transport the containers upright.
- Do not throw the burner or the container into fire.

Fueling

- 1. Locate a quality filtered butane fuel and move to a well-ventilated area.
- 2. Make sure that your regulator is in the OFF position, and flip your burner upside down. (Be careful not to touch or damage your flame head or ignition pin. This may cause malfunction).
- 3. Insert the tip of your butane canister into the filler valve on the bottom of your burner. Back spray of liquid fuel from your valve will indicate that your tank is now full. Do not overfill. (Never fill near an open flame).
- 4. Wait 5 minutes for your gas to stabilize before igniting.

Igniting, Adjusting, and Turning off the Flame

- 1. Ensure the burner is on a level surface.
- 2. Turn the regulator counter-clockwise until you hear a soft "hissing" noise.
- 3. Press the ignition button to ignite the flame.
- 4. Adjust the flame intensity by turning the regulator right or left. Low to medium gas flow is ideal. (The flame should burn blue. A red flame indicates that you are low on fuel and need to refill).
- 5. Turn the regulator clockwise until it is in the OFF position to extinguish the flame.
- 6. Allow the unit to cool before you store it or leave it unattended.



Trouble Shooting

Problem	Cause	Solution
Does not ignite	Empty/low fuel; or improper gas flow	Refill tank; or adjust flow knob
Flame is too large	Gas flow is set too high	Turn off flame, reignite, slowly increase gas flow
Low gas pressure	Low or cold fuel	Refill tank