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## TECHNICAL INFORMATION

### Fumette Disposable Iodine Fuming Gun

Catalog No. DF2016

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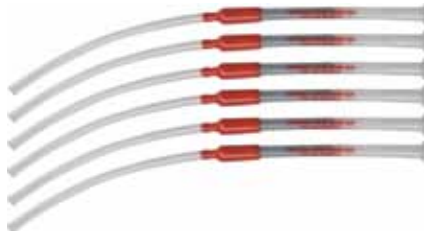
#### INTRODUCTION

Iodine fuming is recommended for development of latent fingerprints on porous surfaces including paper, cardboard and raw wood. Iodine fumes react with the oily substances deposited by the fingers, and iodine fuming is the recommended process when the prints are known to be fresh. When heated, iodine crystals sublimate—that is, they change from a solid to a gas.

This process is non-destructive to latent prints and will not interfere with subsequent testing using DFO, Ninhydrin, Silver Nitrate, or Physical Developer.

#### CAUTIONS

- Before using this kit, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at [www.sirchie.com/support](http://www.sirchie.com/support).



- Always use iodine fuming in a well-ventilated area or in a fuming chamber or hood.
- Iodine accelerates the oxidation (rusting) of ferrous metals. Keep fumes and crystals away from metal surfaces.
- DO NOT inhale through the fuming gun while dispensing out fumes. In case of inhalation, refer to the MSDS.

## PROCEDURE

1. Remove the fuming gun from the plastic bag.
2. The ampoule containing iodine crystals will be visible inside the fuming gun. Grasp the fuming gun in the palm of your hand, and cover the area where the crystals are located for at least one minute. Body heat will accelerate sublimation of the crystals.
3. Remove the cap on the front end of the fuming gun.
4. Attach the Blowing Tube to the tipped red cap at the other end.
5. Crush the enclosed glass ampoule by squeezing between the thumb and forefinger.
6. Aim the nozzle (front end) of the tube toward the area to be fumed. The nozzle-to-surface distance should not exceed one (1) inch.



***Crush glass ampoule by squeezing it between the thumb and forefinger.***

7. Extend the Blowing Tube to its full length, take a deep breath, place the end between your lips, and blow steadily. As the breath warms the crystals, a purple vapor may be seen coming from the nozzle. Move the nozzle across the surface in a sweeping, circular motion. ***Do not inhale through the blowing tube!***
8. Latent prints should be visible shortly after the application of the fumes. Re-fume faint prints. Iodine prints will begin to fade shortly after development, so be prepared to photograph any prints developed using this method as soon as they appear. Prints containing high oil content may be visible for a day or more, while others may fade in a few minutes.
9. When fuming is complete, photograph the prints with a scale, and wait approximately 3 minutes before applying a fixative or enhancer. Iodine-fumed prints may be enhanced using DISCHAPS™ DCA1 Iodine Enhancer. This enhancer will stain the prints a blue to purple color, which affords greater photographic contrast.
10. After fuming is complete, re-cap the fuming gun, and tie a knot in the Blowing Tube. Replace the fuming gun into a plastic bag, seal or tape it shut, and dispose of it in a safe manner consistent with all local environmental regulations.

