Fentanyl is a powerful synthetic drug that is similar to morphine & heroin but 50-100 times more potent. Fentanyl and its equivalents are members of the class of drugs known as rapid-acting synthetic opioids that alleviate pain.

Increasing rates of usage and addiction to fentanyl are placing first responders, law enforcement and other professions at a greater risk of accidental exposure.

2X
increase in reported law enforcement fentanyl encounters in 2015, the most current year on file.²

>50%
of reported U.S. opioid overdose deaths in 10 states tested positive for fentanyl in 2016.¹

>20,000people died from fentanyl and fentanyl analogs in 2016, a 203% increase from 2015.⁴

EXPOSURE to the dangers of fentanyl can occur in several ways

INGESTION
Accidental ingestion when passed to the mouth with fentanyl contaminated hands.

INHALATION
Can occur when fentanyl is in a fine powder form and is stirred into the air and inhaled.

ABSORPTION
Can occur when accidentally touching a surface with trace amounts of fentanyl.

WHO IS AT RISK?

<table>
<thead>
<tr>
<th>Pre-Hospital Patient Care</th>
<th>Law Enforcement</th>
<th>Investigation and Evidence Handling</th>
<th>Special Operations and Decontamination</th>
<th>Ancillary Professions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• First responders</td>
<td>• State and federal police officers</td>
<td>• FBI and CIA</td>
<td>• Hazardous material incident response teams</td>
<td></td>
</tr>
<tr>
<td>• Fire department</td>
<td>• State and federal prison enforcement officers</td>
<td>• Forensic lab technicians</td>
<td>• Emergency room</td>
<td></td>
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<tr>
<td>• Private companies</td>
<td>• Border and airport security officers</td>
<td>• Coroner / mortuary</td>
<td>• Janitorial / housekeeping</td>
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<tr>
<td>• Patient transportation</td>
<td></td>
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<td>• Security officers</td>
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<td></td>
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<td>• Customs agents</td>
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<td></td>
<td></td>
<td></td>
<td>• Postal service / mail room</td>
<td></td>
</tr>
</tbody>
</table>

¹ https://www.dea.gov/druginfo/Fentanyl_BriefingGuideforFirstResponders_June2017.pdf
² https://www.cdc.gov/drugoverdose/data/fentanyl-le-reports.html
³ https://www.cdc.gov/media/releases/2017/s1027-fentanyl-deaths.html
⁵ https://www.cdc.gov/mmwr/volumes/67/wr/mm6727a4.htm
GUIDANCE TO AVOID EXPOSURE

As with any hazard, a thorough risk assessment should be employed to establish the potential level of exposure and risk associated with fentanyl exposure in order to determine the appropriate PPE necessary. Based on fentanyl risk exposure scenarios, the Centers for Disease Control and Prevention, (CDC) National Institute for Occupational Safety and Health (NIOSH), and IAB published PPE matrices that offer guidance on selecting respiratory, face and eye, hand and dermal protection. Based on these guidelines Ansell recommends the following considerations for hand and body protection against fentanyl.

Learn More About NIOSH and CDC recommendations at cdc.gov/niosh/topics/fentanyl/risk.html

SINGLE USE DISPOSABLE GLOVES

- Select the correct size and fit to maximize dexterity
- Utilize an extended cuff for additional level of protection of the wrist
- Choose a non-latex (synthetic) medical grade exam glove at least 5mil (0.127mm) palm thickness
- Replace after advised time limit and if torn or punctured, change immediately
- Look for gloves that have been tested for exposure to fentanyl and gastric acid in accordance with ASTM D6978-05
- Ensure gloves meet or exceed the strict requirements of the National Fire Protection Agency, an external body that regulates emergency protection

Additional Points to Consider
- Double glove for added protection
- Choose gloves manufactured to low Acceptable Quality Levels (AQL), as this indicates higher levels of barrier quality and consistency

CHEMICAL PROTECTIVE CLOTHING

Ansell offers a wide selection of coveralls and other accessories made from fabrics that have been tested to resist fentanyl permeation.

When selecting clothing for potential dermal exposure to highly toxic compounds like fentanyl, it is important to consider both the chemical barrier properties of a fabric as well as the design and construction of the garment.

- Select the correct size of chemical protective suit
- Choose products with industry standards certification
- Identify the appropriate chemical barrier (fabric) which meets ASTM D6978-05 and applicable for the exposure level
- Consider unique innovative design features in chemical protective suits such as double zip, taped/welded seams appropriate to the fentanyl risk.

Seams and storm flaps that cover and seal over the zipper are important for limiting dry particle contamination into the suit.
RECOGNIZING THE EXPOSURE LEVELS

**MINIMAL**
Response to a situation where it is suspected that fentanyl may be present but no fentanyl products are visible

Example: An EMS response to a suspected fentanyl overdose or law enforcement operation where intelligence indicates fentanyl products are suspected but are not visible on scene

**MODERATE**
Response to a situation where small amounts of fentanyl products are visible

Example: An EMS response to a suspected fentanyl overdose or law enforcement operation where fentanyl products are suspected and small amounts are visible on scene

**HIGH**
Response to a situation where liquid fentanyl or large amounts of fentanyl products are visible

Example: A fentanyl storage or distribution facility, fentanyl milling operation, or fentanyl production laboratory

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1Learn More About NIOSH and CDC recommendations at cdc.gov/niosh/topics/fentanyl/risk.html

**PRODUCTS AVAILABLE**

The below are all tested against fentanyl

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Pre-hospital</th>
<th>Law Enforcement</th>
<th>Investigation / Evidence Collection</th>
<th>Special Ops / Decontamination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Patient Care</td>
<td>Routine Duty</td>
<td>Collection</td>
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<tr>
<td>Minimal</td>
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<tr>
<td>High</td>
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</tbody>
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**MicroFlex®**

Microflex® LifeStar™ EC
Double dipped for strength, dual colored for easy breach detection

**MICROCHEM® by AlphaTec®**

**MICROCHEM® by AlphaTec® 2000 / 2000 TS PLUS**
Breathable protection and comfort with exceptional liquid and particulate protection

**MICROCHEM® by AlphaTec® 2300 / 2300 PLUS**
Light weight entry-level barrier to harmful chemicals

**MICROCHEM® by AlphaTec® 3000**
One of the lightest and most comfortable chemical protective suits on the market today

**MICROCHEM® by AlphaTec® 4000**
An exceptional barrier against organic and inorganic chemicals and biological agents

For additional information please contact your local Ansell representative, visit www.ansell.com/fentanylprotection or call Customer Service at:

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