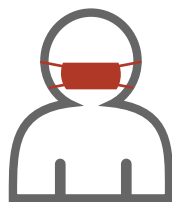


WORKPLACE SAFETY

Beryllium Exposure

Inform Your Employees About These Health Risks



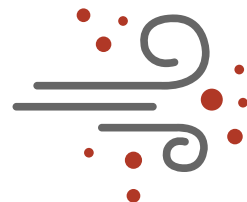
Chronic Beryllium Disease (CBD)

Causes: Inhaling beryllium or exposure to skin

Common symptoms:

- Shortness of breath
- Fatigue
- Weight loss
- Fever
- Night sweats
- Unexplained cough

Outlook: Signs and symptoms can hide for months or years after exposure. Mortality rates range from 5.8%-38%.



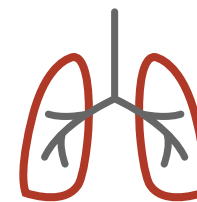
Acute Beryllium Disease (ABD)

Cause: Breathing high airborne concentrations of beryllium that forms a chemical pneumonia.

Common symptoms:

- Shortness of breath
- Fatigue
- Severe cough
- Fever
- Uncontrolled sweating
- Low appetite

Outlook: ABD may develop after a short and heavy exposure and usually lasts for less than one year. 10% of cases are fatal.



Lung Disease

Cause: Occupational exposure to inhaling beryllium dust particles, mist, or fumes.

Common symptoms:

- Shortness of breath
- Coughing up blood
- Severe cough
- Pneumonia symptoms
- Chest pain
- Wheezing

Outlook: A variety of treatments are available depending on the type of lung disease. Some treatments try to cure the disease, while others stop the disease from spreading.

Guidelines to comply with OSHA'S REQUIRED BERYLLIUM LEVELS

1

- PEL 0.2 $\mu\text{g}/\text{m}^3$ averaged over 8 hr. period
- STEL 2.0 $\mu\text{g}/\text{m}^3$ over 15 min. sampling period
- Work practice controls and engineering must be used

2

- Limit high-exposure areas
- Provide personal protective clothing and respiratory protection

3

- Assess beryllium exposure levels
- Develop and implement exposure control plan
- Provide employees with necessary beryllium training