**Safe Data sheet(SDS)- OSHA Electricity safety standards**

**Identification**

* Product: Electrical installation and tools
* Use: construction and management
* Application standards: osha 1910.137(b)(2), 1926.137

**OSHA Standards overview**

* 1910.137(b)(2):PPE

1. Rubber gloves
2. Face shields
3. Safety shoes or boots
4. Insulating sleeves
5. [Flame-resistant clothing](https://int-enviroguard.com/disposable-protective-clothing/pyroguardr.html)

* 1926.431**:**Maintenance

1. Explosion-proofing
2. Dust-proofing
3. General upkeep
4. Immediate repair when hazards are found.

* Circuit safety

1. Labell all circuit clearly
2. Inform workers before entering areas with live circuit
3. Inspect circuits regularly

**Hazard Identification**

* Electric Shock
* Fire Hazard
* Wet Condition
* Tripping Hazards
* Jewelry conductivity
* Unsafe lab equipment( e.g electrophoresis unit)

**General Electrical Safety tips**

* Make a Plan
* Wear The right Gear
* Use the buddy system
* Use Lock out/Tag out(LOTO)
* Avoid the wet Area
* Use GFCI Protection
* Stay away from overhead power lines
* Inspert power cords and outlets for damage

**Lock out/Tags steps**

* Inspect The System
* Shut Down The Circuit
* Isolate The Equipment
* Check For store energy
* Verify everything

**Safe Use Of Electrophoresis Equipment**

* Chemical Hazards
* Electronic shock(100v can be lethal)
* UV radiation
* PPE requirement

1. Long-sleeved lab coat
2. Nitrile gloves
3. Safety goggles

**Emergency Response**

* Call 911 for unconscious person
* Disconnect power before rescue
* Use non-conductive tools
* Start CPR If Trained