

Lab Safety Checklist

Use this targeted checklist to identify and control key safety risks specific to labs, helping verify that critical safeguards are in place throughout every stage of research.



1. Chemical Hazard Exposure

Chemical contact may cause burns, poisoning, or respiratory harm. Compliance Regulations: OSHA 1910.1200, OSHA 1910.106, EPA 40 CFR 266 Subpart P, EPA 40 CFR 262, 273

Control/Prevention Method	Yes	No
Properly labeled chemical containers and safety data sheets	<input type="checkbox"/>	<input type="checkbox"/>
Hazard signage and chemical warning labels displayed	<input type="checkbox"/>	<input type="checkbox"/>
HPLC waste cans with vapor controls and quick-disconnect fittings	<input type="checkbox"/>	<input type="checkbox"/>
Spill kits, absorbent pads, and compliant secondary containment	<input type="checkbox"/>	<input type="checkbox"/>
Flammable chemicals in fire-rated cabinets	<input type="checkbox"/>	<input type="checkbox"/>
Emergency eyewash and shower stations near chemical areas	<input type="checkbox"/>	<input type="checkbox"/>



2. Biological Hazards

Biological agents may cause infection or allergic response. Compliance Regulations: OSHA 1910.1030, CDC/NIOSH Hazardous Drugs Guidelines

Control/Prevention Method	Yes	No
Biosafety cabinets for biological handling	<input type="checkbox"/>	<input type="checkbox"/>
Medical waste stored in hazardous material cabinets	<input type="checkbox"/>	<input type="checkbox"/>
Labeled biohazard waste cans	<input type="checkbox"/>	<input type="checkbox"/>
Emergency eyewash and chemical safety showers in labs	<input type="checkbox"/>	<input type="checkbox"/>
Biohazard signage and safety labels displayed	<input type="checkbox"/>	<input type="checkbox"/>



3. Fire/Explosion Risk

Flammables can ignite or explode if mishandled. Compliance Regulations: OSHA 1910.1030, CDC/NIOSH Hazardous Drugs Guidelines

Control/Prevention Method	Yes	No
Flammable liquids kept in approved, fire-rated safety cabinets	<input type="checkbox"/>	<input type="checkbox"/>
Oily waste in self-closing cans with vapor-resistant lids	<input type="checkbox"/>	<input type="checkbox"/>
Fire suppression and portable fire extinguishers accessible	<input type="checkbox"/>	<input type="checkbox"/>
Spill containment berms, drip pads under drum and tank areas	<input type="checkbox"/>	<input type="checkbox"/>



Discover Hidden Safety Risks— BookYourFree Safety Walkthrough

Schedule a complimentary, expert-led walkthrough of your job site to uncover safety risks and prevent compliance violations. Visit www.justrite.com/stud-e-survey to secure your free assessment today.



4. Dust/Vapor Explosion

Dusts or vapors may ignite explosively. Compliance Regulations: OSHA 1910.307, NFPA 654

Control/Prevention Method	Yes	No
ESD (anti-static) mats in powder handling/process areas	<input type="checkbox"/>	<input type="checkbox"/>
Sticky mats (tacky mats) at entrances to trap dust and particulates	<input type="checkbox"/>	<input type="checkbox"/>
Equipment properly grounded	<input type="checkbox"/>	<input type="checkbox"/>



5. Slip, Trip, and Fall Hazards

Floors and walkways can cause falls or injuries. Compliance Regulations: OSHA 1910.22

Control/Prevention Method	Yes	No
Floors kept clean and dry, anti-slip mats	<input type="checkbox"/>	<input type="checkbox"/>
Sticky mats (tacky mats) at entrances to trap dust and particulates	<input type="checkbox"/>	<input type="checkbox"/>
Cords/hoses protected to prevent tripping	<input type="checkbox"/>	<input type="checkbox"/>
Temporary warning signs near hazards	<input type="checkbox"/>	<input type="checkbox"/>



6. Radiation Hazards

Radiation sources can injure without controls. Compliance Regulations: OSHA 1910.1096, NRC Licensing

Control/Prevention Method	Yes	No
Radiation warning signs, barriers, and hazard tape	<input type="checkbox"/>	<input type="checkbox"/>
PPE and shielding as needed	<input type="checkbox"/>	<input type="checkbox"/>



7. Gas/Cryogen Hazards

Cylinder leaks can cause burns or explosions. Compliance Regulations: OSHA 1910.101–1910.105

Control/Prevention Method	Yes	No
Cylinders stored upright in approved racks, stands, or lockers	<input type="checkbox"/>	<input type="checkbox"/>
Cylinder storage area is well ventilated	<input type="checkbox"/>	<input type="checkbox"/>
Gas labels visible and up to date	<input type="checkbox"/>	<input type="checkbox"/>
Emergency response procedures posted	<input type="checkbox"/>	<input type="checkbox"/>



8. Confined Space Hazards

Tanks or pits may asphyxiate or trap. Compliance Regulations: OSHA 1910.146

Control/Prevention Method	Yes	No
Confined space entry signs	<input type="checkbox"/>	<input type="checkbox"/>
Deployable secondary containment berms for decon/entry	<input type="checkbox"/>	<input type="checkbox"/>

This resource is for general guidance only. The user is solely responsible for ensuring compliance with all applicable local, state, and federal rules, regulations, and laws regarding workplace safety and regulatory compliance. The information provided herein does not constitute legal advice and should not be relied upon as a substitute for independent verification of compliance obligations.