OpsAuditHub opsauditihub.com	DOC ID: **SAF-0354**	REVISION: **Rev 2.4 (2026)**
	STANDARD: **OSHA 29 CFR 1910.1200 Hazard Communication & NFPA 45 Standard on Fire Protection for Laboratories Using Chemicals**	AUDIT FREQUENCY: **Semi-Annual Audit**

School Science Lab Chemical Inventory Audit Inspection Checklist

Operational Scope: This inspection checklist governs the systematic audit of chemical inventories, storage integrity, and hazard communication within educational science laboratories. The objective is to mitigate chemical exposure risks, prevent hazardous reactions, and ensure strict compliance with institutional and federal safety standards.

MANDATORY PPE:	Safety Glasses (ANSI Z87.1), Nitrile or Neoprene Chemical-Resistant Gloves, Lab Coat (Flame-Retardant Cotton or Poly-Cotton Blend), Closed-Toe Leather Shoes, Chemical Splash Goggles
PREREQUISITES:	Notify facility administrator and department head prior to entering chemical storage areas. | Verify functionality of nearby emergency eyewash stations and safety showers before beginning audit. | Ensure up-to-date Safety Data Sheet (SDS) binder or digital database access is fully operational.

SECTION 1: INVENTORY RECONCILIATION AND LABELING

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Master Chemical Inventory List**	Physical stock matches the master inventory log; missing, expired, or unauthorized chemicals are flagged for disposal.	Warning	[ ] PASS [ ] FAIL [ ] N/A
2	**Secondary Container Labeling**	All secondary dispensing containers bear GHS-compliant labels displaying product identifier, hazard warnings, and pictorials.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
3	**Manufacturer Container Integrity**	Original containers show no signs of bulging, crystallization, severe rusting, or compromised container seals.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A

SECTION 2: STORAGE SEGREGATION AND ENVIRONMENTAL CONTROLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
4	**Incompatible Chemical Segregation**	Acids are strictly segregated from bases, flammables from oxidizers, and reactive metals from aqueous solutions per compatibility charts.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
5	**Flammable Storage Cabinets**	Flammable liquids exceeding exempt amounts are stored in NFPA/UL-certified flammable storage cabinets with self-closing doors functioning correctly.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
6	**Corrosive Storage Enclosures**	Acid and base storage cabinets are corrosion-resistant, structurally sound, and free from internal chemical residue buildup.	Warning	[ ] PASS [ ] FAIL [ ] N/A
7	**Shelving Stability and Lip Barriers**	Storage shelves are securely anchored to walls or floors and feature anti-roll lips or restraints to prevent tipping during seismic or impact events.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A

SECTION 3: EMERGENCY PREPAREDNESS AND DOCUMENTATION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
8	**Safety Data Sheet (SDS) Accessibility**	Physical SDS binder or verified electronic terminal is immediately accessible to staff and students in or adjacent to the lab.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A
9	**Chemical Spill Kit Readiness**	Spill kits are fully stocked with neutralizers, absorbents, pads, and disposal bags corresponding to the specific chemicals utilized.	Warning	[ ] PASS [ ] FAIL [ ] N/A
10	**Fume Hood Clearance and Operation**	Chemical fume hoods are certified within the past 12 months, unobstructed by excessive storage, and airflow monitor indicates safe operational velocity.	Critical (Immediate Out of Service)	[ ] PASS [ ] FAIL [ ] N/A

Certified Science Safety Inspector / Hazmat Specialist Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
School Principal / District Facilities Operations Director Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

COMPLIANCE NOTICE: This document must be archived for a minimum of 12 months in accordance with workplace safety recordkeeping guidelines.

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