Chemical Storage Inspection Checklist: Store and Cabinets

Frequency	Completed by	Approved by	The checklist
Weekly	Person in charge of the chemical store	Supervisor or safety professional	36 checks · 6 sections

INSPECTION DETAILS

Site / building: .....

Store, area or cabinet inspected: .....

Type of storage: .....

Main hazard classes stored (flammable, corrosive, oxidising, t

Date and time: .....

Access, signs and information

Start at the door, before you walk in.

1.	The store is locked or supervised, and only authorised people can get in Ref.: [3] [5] [2]	◯ Pass ◯ Fail ◯ N/A
2.	Signs at the entrance show the hazards inside and the no-smoking rule, and can be read Ref.: [4] [3] [5]	◯ Pass ◯ Fail ◯ N/A
3.	The store is well lit: labels can be read at every shelf Ref.: [5] [2]	◯ Pass ◯ Fail ◯ N/A
4.	An up-to-date inventory lists the chemicals in the store, their quantities and their hazard classes Ref.: [6] [2] [5]	◯ Pass ◯ Fail ◯ N/A
5.	The safety data sheets for the stored chemicals can be reached from the store without delay Paper or electronic. In Türkiye the sheets are the Turkish versions provided by the supplier. Ref.: [8] [1] [2] [3] [6]	◯ Pass ◯ Fail ◯ N/A
6.	Shelves, bays or cabinets are marked to show which type of chemical belongs where Ref.: [3] [5]	◯ Pass ◯ Fail ◯ N/A

Containers and labels

Go shelf by shelf. Do not touch a leaking, bulging or unlabelled container.

7.	Every container has a legible label that names the contents and shows the hazards Ref.: [8] [6] [4] [2] [1]	◯ Pass ◯ Fail ◯ N/A
8.	Containers filled from larger ones carry the hazard information of the original label Ref.: [6] [8]	◯ Pass ◯ Fail ◯ N/A

9.	There is no unidentified chemical in the storage area An unidentified chemical is kept apart from the stock until it has been identified or removed. Ref.: [6] [3]	◯ Pass ◯ Fail ◯ N/A
10.	Containers are closed with well-fitting lids or caps Ref.: [3] [7] [4]	◯ Pass ◯ Fail ◯ N/A
11.	No container is leaking, bulging, corroded or damaged CRITICAL Look at drum seams and bases, caps and the shelf or pallet under each container. Ref.: [6] [5] [4] [3] [2]	◯ Pass ◯ Fail ◯ N/A
12.	Chemicals are in their original packaging or in containers made of a material suited to the contents Ref.: [2] [3]	◯ Pass ◯ Fail ◯ N/A
13.	No chemical is kept beyond the maximum storage time or expiry date given by the supplier Ref.: [3] [4]	◯ Pass ◯ Fail ◯ N/A

Segregation and stacking

14.	Incompatible chemicals are stored apart, as the safety data sheets and the site's segregation plan require CRITICAL Examples from HSG71: acids apart from hypochlorites, cyanides, sulphides and alkalis; oxidisers apart from flammables. Ref.: [1] [3] [6] [2] [4]	◯ Pass ◯ Fail ◯ N/A
15.	Flammable liquids kept in a work area are in a closed, labelled fire-resisting cabinet or bin, within the quantity set for it HSG51 recommends at most 50 litres of extremely or highly flammable liquids and 250 litres of other flammable liquids with a flashpoint up to 60 °C. OSHA 1910.106(d)(3) allows at most 60 gallons of Category 1 to 3 or 120 gallons of Category 4 liquids in one cabinet. Mark N/A if no flammable liquids are kept. Ref.: [4] [7]	◯ Pass ◯ Fail ◯ N/A
16.	Materials that react with water are not stored in the same room as flammable liquids Ref.: [7] [2]	◯ Pass ◯ Fail ◯ N/A
17.	Containers are away from heaters, hot pipes, hot light fittings and direct sunlight Ref.: [2] [3]	◯ Pass ◯ Fail ◯ N/A
18.	Stacks are stable and within the height set for the packaging; nothing can slide or fall Drums lying on their sides are chocked. Ref.: [9] [3] [6] [2]	◯ Pass ◯ Fail ◯ N/A
19.	Shelving and racking are undamaged, free of corrosion and not overloaded Ref.: [6] [3] [4]	◯ Pass ◯ Fail ◯ N/A
20.	Containers are arranged so that a leaking one can be seen and taken out easily Ref.: [3] [4] [5]	◯ Pass ◯ Fail ◯ N/A
21.	Aisles, doors and emergency exits are clear; nothing is stored in the walkways Ref.: [7] [6] [2] [4]	◯ Pass ◯ Fail ◯ N/A

Spill control, ventilation and ignition sources

22.	Liquids stand in a bund, on bunded pallets or in drip trays that would hold a spill HSG71: the bunded volume should be 110% of the single largest receptacle in the bund. Ref.: [6] [3] [5] [4]	◯ Pass ◯ Fail ◯ N/A
23.	Bunds and trays are empty: no spilled liquid or rainwater takes up their capacity Ref.: [3]	◯ Pass ◯ Fail ◯ N/A
24.	Floors and shelves are free of spills and residues Ref.: [7] [3] [5] [2]	◯ Pass ◯ Fail ◯ N/A
25.	A spill kit with absorbent suited to the stored chemicals is complete and within reach Ref.: [3] [6] [5] [4]	◯ Pass ◯ Fail ◯ N/A
26.	The store is ventilated, and vents and grilles are not blocked by stock Ref.: [1] [3] [5] [2]	◯ Pass ◯ Fail ◯ N/A
27.	There is no smoking, open flame or unauthorised electrical equipment in the store or near flammables CRITICAL HSG71 names radios, heaters and kettles as examples of unauthorised electrical equipment, and battery charging as an ignition source. Ref.: [1] [7] [3] [6] [2]	◯ Pass ◯ Fail ◯ N/A
28.	Empty packaging, pallets, rags and other combustible waste have been removed from the store Ref.: [3] [7] [9] [5] [1]	◯ Pass ◯ Fail ◯ N/A

Emergency equipment and people

29.	A fire extinguisher suited to the stored chemicals is in place, easy to reach and within its inspection date Ref.: [7] [10] [3] [6] [2]	◯ Pass ◯ Fail ◯ N/A
30.	Where corrosives are stored, an eyewash or emergency shower is close by, unobstructed and checked Mark N/A if no corrosive chemicals are stored. Ref.: [11] [6]	◯ Pass ◯ Fail ◯ N/A
31.	The gloves, eye protection and other PPE needed for handling and for clearing up a spill are at the store and in good condition Ref.: [3] [5] [1]	◯ Pass ◯ Fail ◯ N/A
32.	Instructions for a spill or fire and the emergency contact numbers are posted or at hand Ref.: [1] [5] [6]	◯ Pass ◯ Fail ◯ N/A
33.	People who work in the store have been trained on the hazards, segregation and what to do in a spill Ref.: [1] [6] [5] [3]	◯ Yes ◯ No ◯ N/A

Result

34.	Every defect found has been reported to the supervisor and an action assigned Ref.: [6] [1]	◯ Yes ◯ No ◯ N/A
35.	If a critical check failed, the leak, the incompatible storage or the ignition source was made safe before leaving the store CRITICAL Ref.: [5] [4] [1]	◯ Yes ◯ No ◯ N/A

36. Notes and defects found	Note: _____

Critical check: if it fails, stop and correct it before work continues.

SIGN-OFF

Inspector		Supervisor or safety professional	
Name:	.....	Name:	.....
Signature:	.....	Signature:	.....
Date:	.....	Date:	.....

Legal basis and references

[1] Türkiye: Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik (Resmî Gazete, 12.08.2013, 28733; değişik 20.10.2023, 32345) — Article 7: arrangements for storing hazardous chemicals, keeping chemicals that can affect each other out of contact, minimum quantities, ventilation, no ignition sources, adequate control of the measures. Article 8: emergency information and procedures. Article 9: training, Turkish safety data sheets, labelling. Sets no inspection interval.

[2] Türkiye: Çalışma ve Sosyal Güvenlik Bakanlığı, İş Sağlığı ve Güvenliği Genel Müdürlüğü, Kimya Sektörü İSG Rehberi (revizyon 2025) — Questions 9 to 13: chemical inventory, safety data sheets kept within easy reach, grouping compatible and incompatible chemicals, minimum conditions for a store (heat and sparks, access, aisles and exits, ventilation and lighting, original labelled packaging, stack height), storage matrix. Guidance, not legislation.

[3] United Kingdom: HSE, Chemical warehousing: The storage of packaged dangerous substances, HSG71 (Fourth edition, 2009) — Paragraphs 108 to 149 (receipt, marked areas, segregation and chemical incompatibilities, stacking, racking, security, ignition sources), 190 to 211 (ventilation, containers, spill control, 110% bund volume, clean-up and PPE), 243 to 244 (extinguishers). Guidance, not compulsory.

[4] United Kingdom: HSE, The storage of flammable liquids in containers, HSG51 (Third edition, 2015) — Paragraphs 51 (marking of containers), 87 to 94 (inspection frequencies set by the operator, leaks and damage, stacking, ventilation openings and exits), 113 to 114 (spills), 142 (signs at entrances), 207 to 212 (fire-resisting cabinets, 110% spill retention, recommended 50 and 250 litre maxima).

[5] United Kingdom: HSE, Offshore COSHH essentials OCM8, Storing chemicals (2011) — Good practice sheet written for offshore installations: restricted access, well lit and ventilated store, defined and signed areas, bunded containers, clear labels, spill kits, daily check for damage and leaks, weekly cleaning, removal of waste packaging, training.

[6] European Union: Health and Safety Authority (Ireland), Storage of Hazardous Chemicals in Warehouses, Information Sheet (2025) — Good practices: chemical inventory, quarantine of unidentified chemicals, labels and accessible SDSs, regular visual inspections of chemicals and packaging, labels on smaller containers, segregation led by the SDS, secondary containment and spill kits, ignition sources, clear exits, tested emergency equipment, racking.

[7] United States: OSHA 29 CFR 1910.106, Flammable liquids — Paragraphs (d)(3) (storage cabinets: 60 and 120 gallon limits, label), (d)(5)(i) (exits), (d)(7) (extinguishers, no open flames or smoking, water-reactive materials), (e)(2)(iv)(a) (covered containers), (e)(9) (spills cleaned up promptly, aisles, combustible waste).

[8] United States: OSHA 29 CFR 1910.1200, Hazard communication — Paragraphs (f)(6) and (f)(9) (each container labelled, tagged or marked; labels not removed or defaced) and (g)(8) (safety data sheets readily accessible during each work shift).

[9] United States: OSHA 29 CFR 1910.176, Handling materials, general — Paragraphs (b) (containers stored in tiers stacked and limited in height so that they are stable) and (c) (storage areas kept free from accumulated materials that are a fire or tripping hazard).

[10] United States: OSHA 29 CFR 1910.157, Portable fire extinguishers — Paragraphs (c)(1) (extinguishers mounted, located and identified so that they are readily accessible) and (e)(2) (monthly visual inspection).

[11] United States: OSHA 29 CFR 1910.151, Medical services and first aid — Paragraph (c): suitable facilities for quick drenching or flushing of the eyes and body within the work area where people may be exposed to injurious corrosive materials.

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