

## B. Chemical Safety

LAB/ROOM:

INSPECTED BY:

DATE:

Item	Subject	Yes, No, N.A.	Comment
B1	Chemical cabinets are properly labeled		
B2	Flammable, corrosive & oxidizing compounds are store separately		
B3	Flammable chemicals are stored in safety cabinets or spark-proof refrigerators which are designed for flammable chemicals		
B4	Flammable chemicals are not adjacent to heating sources or electric sockets		
B5	Chemicals are stored according to the manufacturers instructions (e.g. low temperature)		
B6	All bottles are labeled clearly		
B7	All diluted, prepared & in-use reagents are labeled properly and clearly		
B8	No chemical containers are left on the floor		
B9	There are no expired peroxide containing chemicals (e.g. THF) stored in the laboratory		
B10	No food (except for use in experiments) is left in fridges that contain chemicals		
B11	All hazardous chemicals are kept below eye level		
B12	Chemical bottles do not hang over the edge of shelves		
B13	Empty chemical containers are rinsed before disposal		
B14	All chemicals are covered when not in use		
B15	Material Safety Data Sheets (soft or hard copy) of in-use chemicals are available for reference within the laboratory		
B16	Chemical bottle carriers are available for transport of chemicals out of the laboratory		Remark: "available" should read "used".
B17	There are no traces of chemicals left on benches, the floor or any other surfaces		
B18	All chemical waste containers are placed on an external tray		
B19	The waste containers for temporary use are clearly labeled with the type of waste stored		
B20	The chemical waste storage area is labeled and fenced off.		
B21	Flammable chemical waste containers are separated from oxidizing waste containers.		

Item	Subject	Yes, No, NA	Comment
B22	Halo-solvents and non-halo solvents are disposed of separately.		
B23	Nitric Acid is disposed of separately from other acids		
B24	All fume cupboards are functioning properly		
B25	Periodic air flow measurements are made and results are known to laboratory personnel		<b>Remark: For the fume cupboards.</b>
B26	No chemicals are permanently stored in a fume cupboard unless used daily		
B27	No electric extension board is placed within a fume cupboard		
B28	Sinks in fume cupboards are not clogged or leaking		
B29	A chemical spill kit is readily available for use.		
B30	A mercury spill kit is available where metallic mercury is used		
B31	A safety shower and eyewash if installed can be reached easily and have been tested within the last year		
B32	Chemical goggles are available to everyone in the laboratory and are well maintained.		
B33	Chemical resistant gloves are used for handling chemicals		
B34	Specific hydrofluoric acid resistant gloves are available for use if this chemical is used		
B35	Face shields are available in case they are required		
B36	Explosion shields are available for use where minor chemical explosions cannot be ruled out.		
B37	Other		

Endorsed By \_\_\_\_\_ Date \_\_\_\_\_

Signature & Name