

NSLS OHSAS Job Risk Assessment

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Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Storing containers	Fire, explosion	N	1	3	3	3	27	Segregation of hazard types, storage cabinets, proper ventilation, proper PPE, secondary containment, spill response, Tier I, proper labeling, training	1	3	3	2	18							
	Chemical reactions	N	1	3	2	3	18	Segregation of hazard types, storage cabinets, proper ventilation, proper PPE, secondary containment, spill response, Tier I, proper labeling, training	1	3	2	2	12							
	Exposure via inhalation	N	1	3	2	3	18		1	3	2	2	12							
	Glass bottle breakage	N	1	4	3	3	36	Stored glass bottles larger than 1000 ml are not allowed unless specific permission is obtained from NSLS ESH staff.	1	4	2	3	24	Stored plastic bottles or glass bottles larger than 1000 ml with protective plastic sleeves are allowed.	1	4	1	2	8	67
Moving containers	Spill with fire	N	1	4	2	3	24	Spill response, proper labeling, training, work	1	4	2	2	16							

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around the lab work area or the building	Spill with inhalation exposure	N	1	4	2	3	24	planning, procedures	1	4	2	2	16							
	Spill with direct contact exposure	N	1	4	2	3	24		1	4	2	2	16							
	Glass bottle breakage	N	1	4	3	3	36	Stored glass bottles larger than 1000 ml are not allowed unless specific permission is obtained from NSLS ESH staff.	1	4	2	3	24	Stored plastic bottles or glass bottles larger than 1000 ml with protective plastic sleeves are allowed.	1	4	1	2	8	67
Use of chemicals	Fire or explosion	N	1	3	3	3	27	MSDS, minimum quantities, avoid open flames, proper labeling, use of fume hoods where practical (ventilation), work planning or experimental review, PPE, avoid incompatibles, training	1	3	2	2	12							
	Exposure to skin, direct or sensitization	N	1	3	2	3	18	MSDS, minimum quantities, work planning or experimental review, PPE, training	1	3	2	2	12							

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	Exposure via inhalation	N	1	3	2	4	24	MSDS, minimum quantities, proper labeling, use of fume hoods where practical (ventilation), work planning or experimental review, PPE, avoid incompatibles, training	1	3	2	3	18						
Mixing chemicals per manufacturers directions	Exposure to skin, direct or sensitization	N	1	3	2	3	18	MSDS, minimum quantities, work planning or experimental review, PPE	1	3	2	2	12						
	Exposure via inhalation	N	1	3	2	3	18	MSDS, minimum quantities, use of fume hoods where practical (ventilation), work planning or experimental review	1	3	1	3	9						
Changing/adding pump oils	Exposure via inhalation	N	1	2	1	3	6	Training, Lockout-tagout, PPE	1	2	1	2	4						
	Exposure to skin, direct or sensitization	N	1	2	1	3	6		1	2	1	2	4						
Disposing of chemicals	See LS-JRA-0026 "Generating Hazardous Waste"																		

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		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction						
		0 to 20 Negligible					21 to 40 Acceptable					41 to 60 Moderate					61 to 80 Substantial					81 or greater Intolerable				