

## Chemical Risk Assessment

Name	Tina Christiansen
Date	10-03-21
Risk Assessment regarding	HPLC/UPLC
Institute / Department	FKF
Building/room	Farma lab
Signature from the working environment group:	

FKF-SDU safetyfolder	<a href="https://www.sdu.dk/-/media/files/om_sdu/institutter/fkf/arbejdsmiljoe/sikkerhedsfolder-dk-180219.pdf">https://www.sdu.dk/-/media/files/om_sdu/institutter/fkf/arbejdsmiljoe/sikkerhedsfolder-dk-180219.pdf</a>
FKF-SDU plan for emergency	<a href="https://www.sdu.dk/da/om_sdu/institutter_centre/fysik_kemi_og_farmaci/arbejdsmiljo/beredskabsplan+for+fkf">https://www.sdu.dk/da/om_sdu/institutter_centre/fysik_kemi_og_farmaci/arbejdsmiljo/beredskabsplan+for+fkf</a>

Procedure	Chemical agents/linear formula/CAS no.	Link til Kemibrug for SDS	Symbols	Pictogrammes descriptions	Waste group	Storage	Protective equipment	Exposure risk when and how much	At accidents and spillage	Other hazards ??
To run the HPLC, get an introduction from an experienced user to the specific HPLC in the specific lab.	Acetonitril, HPLC grade (75-05-8)	<a href="https://kemibrug.dk/?pnummer=p239296#K">https://kemibrug.dk/?pnummer=p239296#K</a>		Higly flammables Irritant (skin and eye)	C	Chemical cupboard	    	Exposure is possible at eluent change, column change, sample handling, waste handling, spillage and leaks. Extent? Duration?	1. Minor spillage wipe up quickly and put waste in fumehood. 2. Bigger spillage, leave the room and contact AMU. 3. Fire use fire extinguisher	
	HPLC grade Methanol (67-56-1)	<a href="https://kemibrug.dk/?pnummer=p202250#K">https://kemibrug.dk/?pnummer=p202250#K</a>		Higly flammables Acute Toxicity Health Hazards	C					
	2-Propanol, HPLC grade (67-63-0)	<a href="https://kemibrug.dk/?pnummer=p205032#K">https://kemibrug.dk/?pnummer=p205032#K</a>		Higly flammables Irritant (skin and eye)	C					
	99.9 % Milli Q H2O + 0.1 % TFA	Ikke mærkningspligtig			B					
	10 % HPLC grade 2-Propanol	Link mangler (KBA bestilt 10/3-21 Tina)		Higly flammables	H					
Eluent preparation	Trifluoroacetic acid (TFA)(76-05-1)	<a href="https://kemibrug.dk/?pnummer=p115171#K">https://kemibrug.dk/?pnummer=p115171#K</a>		Skin Cossion/Burns Irritant (skin and eye)	X					

**\*Waste from HPLC are often handled as H, because it is a mixture of different eluents and buffers with a low water content.**

Link for symbols	<a href="https://echa.europa.eu/da/regulations/clp/clp-pictograms">https://echa.europa.eu/da/regulations/clp/clp-pictograms</a>
Link for hazard statements (H)	<a href="https://www.msds-europe.com/h-statements/">https://www.msds-europe.com/h-statements/</a>
Link for precaution statements (P)	<a href="https://www.msds-europe.com/p-statements/">https://www.msds-europe.com/p-statements/</a>
Link for safety signs	<a href="https://e-skilte.dk/skilte-kategori/sikkerhedsskilte/">https://e-skilte.dk/skilte-kategori/sikkerhedsskilte/</a>