

Chemicals in the Microfluidics Lab

This page lists the chemicals that may be used in the lab, links to the relevant MSDS sheet and SOP and describes where the chemical is stored.

Only chemicals on the list below may be used in the lab, and must be stored in the locations indicated. Do not store chemicals in user storage bins or drawers.

Before using a chemical review the relevant SOP if there is one. Contact lab staff if you have any questions about chemical use or disposal.

Instructions for adding chemicals to the approved list:

E-mail bothman@engineering.ucsb.edu with the following information: 1. Name of chemical, quantity to be stored in the lab 2. Brief description of how the chemical will be used 3. Proposed storage location 4. Attach .pdf of the MSDS sheet

Location	Contents
Cabinet #1 - under fume hood 1	Non-flammable chemical waste for pickup by EH&S
Cabinet #2 - under fume hood 1	Flammable chemicals and solvent waste for pickup by EH&S
Cabinet #3 - between fume hoods	Non-flammable user chemical storage
Shelf #4 - shelves between fume hoods	General user chemical storage
Cabinet #5 - under fume hood 2	Acid storage
Cabinet #6- under laminar flow bench	User chemical storage requiring ventilation
Cabinet #7 - under laminar flow bench	Base storage
Cabinet #8 - under laminar flow bench	Hydrogen peroxide storage
Shelf #9 - between fume hoods	General purpose lubricants, cleaning chemicals and dry chemical user chemicals

Chemical	MSDS	SOP	Storage Location
Acetone	MSDS	No	Cabinet 2
Isopropyl Alcohol	MSDS	No	Cabinet 2
Ethyl Alcohol	MSDS	No	Cabinet 2
Dow Silgard 184	MSDS	No	Cabinet 2
(TRIDECAFLUORO-1,1,2,2-TETRAHYDROOCTYL)TRICHLOROSILANE	MSDS	Yes	Cabinet 6
N-DECYLTRICHLOROSILANE	MSDS	Yes	Cabinet 6
LPS1 lubricant	MSDS	No	Shelf 9
3 in 1 oil		No	Shelf 9
Goo-Gone cleaner	MSDS	No	Shelf 9
Dow Silicone Vacuum Grease		No	Shelf 9
Methylene blue	MSDS	No	Cabinet 3
Sodium perchlorate	MSDS	No	Cabinet 3

Kool Mist formula 78	MSDS	No	Cabinet under sink
Super Lube synthetic grease	MSDS	No	Shelf 9
Methylene Chloride	MSDS	No	Cabinet 2
Glycerol	MSDS	No	Cabinet 3
Toluene	MSDS	No	Cabinet 2
aminopropyltriethoxysilane	MSDS	No	Cabinet 3
Sodium Chloride	MSDS	No	Shelf 9
Tris Base (CH ₂ OH) ₃ CNH ₂	MSDS	No	Shelf 9
Agar	MSDS	No	Shelf 9
Chloro(dimethyl)octadecylsilane	MSDS	In progress	Cabinet 6
Weld-On Acrylic Cement #3	MSDS	No	Shelf 4
Invitrogen Agarose	MSDS	No	Cabinet 3
Heptadecafluoro-1,1,2,2-tetrahydrodecyl trichlorosilane	MSDS	Yes	Cabinet 6
Novec HFE7500	MSDS	Yes	Cabinet 6
Hydrogen Peroxide - 30%	MSDS	Yes	Cabinet 8 (under white hood)
Crystalbond 509	MSDS	No	Bench by hot plate
3D laser scanning spray - Helling	MSDS	In progress	Shelf #4
Slide Silicone Mold Release	MSDS	In progress	Shelf #4
Spray-on Mold Release	MSDS	In progress	Shelf #4
Liquid Nitrogen	MSDS	In progress	Mobile dewar - filled as needed
poly(isopropylacrylimide (pNIPAM)	MSDS	No	Not stored in lab
Poly(vinyl alcohol)	MSDS	No	Not stored in lab

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Last update: 2017/01/23 22:13

