Safety Documentation

Please select the forms you require by selecting the check boxes below.
You can select more than one.

☐ **Risk Assessment** ☐ **Method Statement** ☑ **Chemicals COSHH**

Once you have made your selections, scroll down and complete the forms.

Buttons: [+] will add a row to a list [X] will delete a row from a list

You may save this file to a local drive at any time.
When you have finished, save the file to a local drive and email it to your supervisor for authorisation.

Supervisors - There is a sign-off section at the end of the document set that must be completed.

Staff may "self authorise", (as a supervisor), but the forms must still be submitted to the DSO for approval.

IMPORTANT:

YOU ***MUST NOT*** START ANY PRACTICAL WORK UNTIL THESE FORMS HAVE BEEN RETURNED TO YOU WITH **BOTH** YOUR SUPERVISOR's AND DSO's APPROVAL SIGNATURES ATTACHED.

Please complete these fields

School or Service	Wolfson School of Mechanical, Electrical and Manufacturing Engineering
Department	Centre for Biological Engineering
Originator name	Sotiria Toumpaniari
email address	s.toumpaniari@lboro.ac.uk
Location	H34, CTMF
Project / Activity / Task	Mounting samples after histological staining
Supervisor Name	Prof Sotiris Korossis

Version : 2.17

Loughborough University
Centre for Biological Engineering

COSHH Form

Reference: SAF/294-296

Location: H34, CTMF

Originator: Sotiria Toumpaniari

Project / Activity / Task: Mounting samples after histological staining

CHEMICAL NAME

m-xylene
(>= 50 % - <= 100 %)

CAS No. 108-38-3

W.E.L. (Itel / stel)

Hazard Rating: High

OVERALL RISK: Low

Amount used		Period of use (hrs)	The process is:	Physical State		Exposure Potential
1	ml	16	Semi Closed	Volatile Liquid	☐ Eyes ☑ Skin ☑ Inhaled ☐ Ingested	Low

Hazard Statement and Description	Precaution Statement and Description
H226 Flammable liquid and vapour.	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
H332 Harmful if inhaled.	P240 Ground/bond container and receiving equipment.
H312 Harmful in contact with skin.	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
H315 Causes skin irritation.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed

How will the precautions listed above be implemented?

Wear PPE- nitrile gloves, lab coat and goggles. Treat it as cytotoxic and dispose in cytotoxic waste (yellow and purple).

Special Storage and Containment Measures	Disposal Method
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.	Hydrophobic organic solvent waste

How will spillages be dealt with?

Use spill kit. Cover drains. Collect, bind, and pump off spills. Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of

CHEMICAL NAME

p-xylene
(>= 12.5 % - < 20 %)

CAS No. 106-42-3

W.E.L. (Itel / stel)

Hazard Rating: High

OVERALL RISK: Low

Amount used		Period of use (hrs)	The process is:	Physical State		Exposure Potential
0.2	ml	16	Semi Closed	Volatile Liquid	☐ Eyes ☑ Skin ☑ Inhaled ☐ Ingested	Low

Hazard Statement and Description	Precaution Statement and Description
H226 Flammable liquid and vapour.	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
H332 Harmful if inhaled.	P240 Ground/bond container and receiving equipment.
H312 Harmful in contact with skin.	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
H315 Causes skin irritation.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed

How will the precautions listed above be implemented?

Wear PPE- nitrile gloves, lab coat and goggles. Treat it as cytotoxic and dispose in cytotoxic waste (yellow and purple).

COSHH Form (Continued)

Special Storage and Containment Measures	Disposal Method	+
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.	Hydrophobic organic solvent waste	x

How will spillages be dealt with?	
Cover drains. Collect, bind, and pump off spills. Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Cl	

CHEMICAL NAME

Toluene (>= 0.3 % - < 1 %)

CAS No. 108-88-3

W.E.L. (Itel / stel)

Hazard Rating: High

x

OVERALL RISK: Medium

Amount used		Period of use (hrs)	The process is:	Physical State		Exposure Potential
0.1	ml	16	Semi Closed	Volatile Liquid	☐ Eyes ☑ Skin ☐ Inhaled ☑ Ingested	Low

This chemical has a high health risk associated with it.

Hazard Statement and Description	Precaution Statement and Description	+
H225 Highly flammable liquid and vapour.	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.	x
H315 Causes skin irritation.	P240 Ground/bond container and receiving equipment.	x
H373 Causes damage to organs through prolonged or repeated expos	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.	x
H361d Suspected of damaging the unborn child.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed	x
H304 May be fatal if swallowed and enters airways.	No Precaution statements applicable	x
H336 May cause drowsiness or dizziness.	No Precaution statements applicable	x
Justify the use of this chemical:		

How will the precautions listed above be implemented?	
Wear PPE- nitrile gloves, lab coat and goggles. Treat it as cytotoxic and dispose in cytotoxic waste (yellow and purple).	

Special Storage and Containment Measures	Disposal Method	+
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.	Hydrophobic organic solvent waste	x

How will spillages be dealt with?	
Cover drains. Collect, bind, and pump off spills. Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Cl	

+ Add another chemical

Statement of work (Process to be undertaken)

Mounting needs to be used after histological staining to preserve the tissue and the staining.

Show Image

Personal protection requirements not covered in the precaution statements above.

Appropriate clothing (long trousers and skirts), closed shoes

Sources of information and references

http://www.merckmillipore.com/GB/en/product/DPX-new,MDA_CHEM-100579?bd=1

Reference to **existing approved** Risk Assessment

With the current controls, the risk of using these chemicals is: Medium

Supervisor to check that the process involving the safe use of these chemicals has been satisfactorily evaluated

Supervisor and Departmental Safety Office (DSO) Sign-off.

Supervisors

Please check the documents above and if you want to approve them:

1) Electronically sign this document
2) Save it to a local drive (You will be prompted to do this)
3) eMail the signed document to the DSO.

DSO

Please review the documents above and if you want to approve them:

1) Enter the reference numbers as appropriate
2) Electronically sign this document
3) Save it to a local drive (You will be prompted to do this)
3) eMail the signed document to the originator

IF YOU DO NOT WANT TO AUTHORISE THE FORMS,

Please do not sign the form, but click the "Not Approved" check-box and return it to the originator by email stating why and what you expect them to do to put it right in the comments box below.

Not Approved ☐

Supervisors Signature: Professor Sotiris Korossis — Digitally signed by Professor Sotiris Korossis Date: 2019.06.04 15:56:03 +01'00'

Form Reference Numbers

Risk Assessment	Method Statement	COSHH Assessment
		SAF/294-296

DSO Signature: R I Temple — Digitally signed by R I Temple Date: 2019.06.10 09:18:25 +01'00'

This document set must be reviewed and re-approved at the following times:

1) After the first occurrence of the activity described above (Review only)
2) After any change to the procedure or reagents used
3) After any incident resulting from this activity
4) At least annually from the date of approval

Next Review:

Review comments