Loughborough University Centre for Biological Engineering



Safety Documentation

Please select the forms you re You can select more than one	equire by selecting the check boxes s.	s below.
Risk Assessment	Method Statement	✓ Chemicals COSHH
Once you have made your selection	ns, 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 driv When you have finished, save the fi	e at any time. le to a local drive and email it to your sup	ervisor for authorisation.
<u>Supervisors</u> - There is a sign-off sec	tion at the end of the document set that	must be completed.
Staff may "self authorise", (as a su	upervisor), but the forms must still be s	ubmitted to the DSO for approval.

IMPORTANT:

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

Please compl	ete 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	CTMF, H34
Project / Activity / T	Task Hematoxylin and eosin staining of biological samples
Supervisor Name	Prof Sotiris Korossis

Version: 2.17

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Loughborough University Centre for Biological Engineering



RISK:

✓ Eyes

Skin

Exposure

Potential

COSHH Form

CAS No. 17372-87-1

Location CTMF, H34 Originator Sotiria Toumpaniari

Project / Activity / Task Hematoxylin and eosin staining of biological samples

CHEMICAL NAME

Eosin Y- 2′, A′, 5′, 7′ Tetrabromofluorescein

Reference SAF/297

Originator Sotiria Toumpaniari

Hazard Rating High OVERALL

The process is:

Physical State

Period of

use (hrs)

Amount

used

W.E.L. (Itel / stel)		0.1 g 0.1	Closed	Non-Volatile Liquid	Inhaled Low lngested	Low	
Hazard Statement and Description			Precaution Statement and Description				
H319 Causes serious eye irritation.		P260 Do r	P260 Do not breathe dust/fume/gas/mist/vapours/spray.			x	
No Hazard Statements applicable		P305 + P3	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remov			x	
How will the precautions listed above be implemented?							
Wear nitrile gloves, lab coat and goggles- when solutions are used outside the fume hood.							
Special Storage and Containment Measures			Disposal Method			+	
Keep container tightly closed in a cool, dry and well-ventilated place.		Aqueou	Aqueous waste - Check with Technician or Supervisor			X	
How will spillages be dealt with?							
Use spill kit. Cover drains. Collect, bind, and pump off spills. Take up dry. Clean up affected area. Avoid generation of dusts.							
			Valal a santha s	. december 1			

+ Add another chemical

Statement of work (Process to be undertaken)

Eosin is to be used as a counterstain during staining tissue sections according to the Hematoxylin- Eosin staining.

Show Image

Personal protection requirements not covered in the precaution statements above.

Appropriate clothing (long trousers and skirts), closed shoes.

Change contaminated clothing. Wash hands after working with substance.

Violent reactions possible with: strong oxidizing agents

Conditions to avoid: strong heating

Fire may cause evolution of: hydrogen bromide

Special protective equipment for firefighters: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information: Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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Sources	OI I	1110111	ιαιισπ	anu	16161	CIICCS

http://www.merckmillipore.com/GB/en/product/msds/MDA_CHEM-105174? Origin=PDP

Reference to existing approved Risk Assessment

COSHH Form (Continued)

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

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

Loughborough University Centre for Biological Engineering



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, Not Approved 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. Supervisors Signature Form Reference Numbers Method Statement COSHH Assessment Risk Assessment SAF/297 **DSO Signature** 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 **Next Review:** 4) At least annually from the date of approval **Review comments**

Sotiria Toumpaniari 10-Jun-2019 Page 3 of 3