

## Safety Documentation

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

**Method Statement**                       **Risk Assessment**                       **Chemicals COSHH**

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

**Buttons:** [+ ] will add a row to a list    [- ] 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	Oliver George Frost
email address	o.g.frost@lboro.ac.uk
Location	CBE Labs
Project / Activity / Task	Detection of senescent cells using Abcam Kit
Supervisor Name	Prof Rob J Thomas


### COSHH Form

Reference

Location


Originator

Project / Activity / Task

<b>CHEMICAL NAME</b>						Hazard Rating <input type="text" value="High"/>		<b>OVERALL RISK:</b> <input type="text" value="Medium"/>
<input type="text" value="1x Fixative Solution, contains glutaraldehyde and"/>		Amount used	Period of use (hrs)	The process is:	Physical State	<input type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential <input type="text" value="Low"/>	
CAS No.	<input type="text" value="111-30-8 / 50-00-0"/>	<input type="text" value="400"/>	<input type="text" value="ml"/>	<input type="text" value="0.1"/>	<input type="text" value="Semi Closed"/>	<input type="text" value="Non-Volatile Liquid"/>		
W.E.L. (Itel / stel)	<input type="text"/>							

This chemical has a high health risk associated with it.

Hazard Statement and Description	Precaution Statement and Description	
H317 May cause an allergic skin reaction.	P201 Obtain special instructions before use.	+
H341 Suspected of causing genetic defects.	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	x
H350 May cause cancer.	P362 Take off contaminated clothing and wash before reuse.	x
EUH208 Contains <name of sensitising substance>. May produce an	P501 Dispose of contents/container to ...	x
EUH071 Corrosive to the respiratory tract. Contains lead. Should not be	P280 Wear protective gloves/protective clothing/eye protection/face protection.	x
		x
		x
Justify the use of this chemical:	Measure senescence induced by chemotherapy agents. No alternative as needs consistency with previous work, small quantities will be used and appropriate PPE specified.	
How will the precautions listed above be implemented?		
The work will occur in a fume hood. Small amounts of the solution will be used (1-5ml) to fix the samples for 10-15 mins.		
Special Storage and Containment Measures	Disposal Method	
Store at 4C and keep within kit container.	Aqueous waste - cytotoxic liquid. Not autoclaved. Must be removed and placed in Gas Pod 2 when work is complete. Use suitable disposable winchester bottle and label for collection, at each time the bottle is moved it must be placed in a bottle holder. SOP039.	+
How will spillages be dealt with?	<i>Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. <a href="#">Click here to see spill procedures</a></i>	x
Other - Chemical spill kit and refer to SOP039.		

<b>CHEMICAL NAME</b>						Hazard Rating <input type="text" value="High"/>		<b>OVERALL RISK:</b> <input type="text" value="Low"/>
<input type="text" value="X-Gal"/>		Amount used	Period of use (hrs)	The process is:	Physical State	<input type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Inhaled <input checked="" type="checkbox"/> Ingested	Exposure Potential <input type="text" value="Low"/>	
CAS No.	<input type="text" value="7240-90-6"/>	<input type="text" value="150"/>	<input type="text" value="mg"/>	<input type="text" value="0.1"/>	<input type="text" value="Semi Closed"/>	<input type="text" value="Lyophilised Solid"/>		
W.E.L. (Itel / stel)	<input type="text"/>							

Hazard Statement and Description	Precaution Statement and Description	
		+


# COSHH Form (Continued)

H302 Harmful if swallowed.	P280 Wear protective gloves/protective clothing/eye protection/face protection.	X
H312 Harmful in contact with skin.	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	X
H332 Harmful if inhaled.	P264 Wash ... thoroughly after handling.	X
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.	X
	P501 Dispose of contents/container to ...	X

How will the precautions listed above be implemented?

The work will occur in a fume hood. Very small amounts of the solution will be used (25-50ul) to stain the samples for 4 hours.

Special Storage and Containment Measures	Disposal Method	
Store at -20 in a box.	Biological waste (See specific RA)	X
How will spillages be dealt with?	Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. <a href="#">Click here to see spill procedures</a>	
Absorbent cloth / tissue		

<b>CHEMICAL NAME</b> <b>100X Staining supplement contains Potassium</b>		Hazard Rating <b>High</b>	<b>OVERALL RISK:</b>  <b>Low</b>
CAS No. 14459-95-1		Exposure Potential <b>Low</b>	
W.E.L. (ltel / stel)	Amount used: 100 ml Period of use (hrs): 4 The process is: Semi Closed Physical State: Non-Volatile Liquid	<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	

This chemical has a high health risk associated with it.

Hazard Statement and Description	Precaution Statement and Description	
H361 Suspected of damaging fertility or the unborn child.	P280 Wear protective gloves/protective clothing/eye protection/face protection.	X
	P201 Obtain special instructions before use.	X
	P202 Do not handle until all safety precautions have been read and understood.	X
	P308 + P313 IF exposed or concerned: Get medical advice/attention.	X
	P501 Dispose of contents/container to ...	X

Justify the use of this chemical: Measure senescence induced by chemotherapy agents. No alternative as needs consistency with previous work, small quantities will be used and appropriate PPE specified.

How will the precautions listed above be implemented?

The work will occur in a fume hood. Small amounts of the solution will be used (1-5ml) to stain the samples for 4 hours.

Special Storage and Containment Measures	Disposal Method	
Store at 4C in kit container.	Aqueous waste - cytotoxic liquid. Not autoclaved. Must be removed and placed in Gas Pod 2 when work is complete. Use suitable disposable winchester bottle and label for collection, at each time the bottle is moved it must be placed in a bottle holder. SOP039.	X
How will spillages be dealt with?	Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. <a href="#">Click here to see spill procedures</a>	

Other - Chemical spill kit and refer to SOP 039.

+ Add another chemical

## COSHH Form (Continued)

Statement of work (Process to be undertaken)

Senescence will be assessed with this kit to confirm it has been established after chemotherapy treatment. All of this work is to take place in a ducted BSC.

Show  
image

Personal protection requirements not covered in the precaution statements above.

PPE - including lab coat, shoe covers, gloves, goggles.

Sources of information and references

Reference to **existing approved** Risk Assessment

Safety Data Sheet abcam

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

### Form Reference Numbers

Risk Assessment

Method Statement

COSHH Assessment

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
- 4) At least annually from the date of approval

Next Review:

Review comments