

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	Measuring the level of aging factors before and after drug treatment
Supervisor Name	Prof Rob J Thomas

COSHH Form

Reference SAF/MEME/2120 - 2124

Location CBE Labs

Originator Oliver George Frost

Project / Activity / Task Measuring the level of aging factors before and after drug treatment

CHEMICAL NAME				Hazard Rating		Low		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> OVERALL RISK: Low </div>		
Actin-Beta (Hs01060665_g1)				Exposure Potential		Low				
CAS No.		Amount used	0.25 ml	Period of use (hrs)	0.1	The process is:	Semi Closed		Physical State	Non-Volatile Liquid

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.	x
	P314 Get medical advice/attention if you feel unwell.	x
	P202 Do not handle until all safety precautions have been read and understood.	x
How will the precautions listed above be implemented?		
The work will occur on ice. PPE will be worn (gloves, lab coat, shoe covers). Very small amounts of 1-24ul will be used and care taken when pipetting.		
Special Storage and Containment Measures	Disposal Method	+
Aliquots stored at -20C.	Biological waste, disposed through cell work. Aspirated and virkon added in reference to SOP 003.	x
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. Click here to see spill procedures</i>	
Biological spill kit and refer to SOP038.		

CHEMICAL NAME				Hazard Rating		Low		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> OVERALL RISK: Low </div>		
GUSB (Hs99999908_m1)				Exposure Potential		Low				
CAS No.		Amount used	0.25 ml	Period of use (hrs)	0.1	The process is:	Semi Closed		Physical State	Non-Volatile Liquid

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P202 Do not handle until all safety precautions have been read and understood.	x
	P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.	x
	P314 Get medical advice/attention if you feel unwell.	x
How will the precautions listed above be implemented?		
The work will occur on ice. PPE will be worn (gloves, lab coat, shoe covers). Very small amounts of 1-24ul will be used and care taken when pipetting.		
Special Storage and Containment Measures	Disposal Method	+
Aliquots stored at -20C.	Biological waste, disposed through cell work. Aspirated and virkon added in reference to SOP 003.	x

COSHH Form (Continued)

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. Click here to see spill procedures</i>
Biological spill kit and refer to SOP038.	

CHEMICAL NAME IL1a (Hs00174092_m1)		Hazard Rating Low	OVERALL RISK: Low
CAS No. <input style="width: 100%;" type="text"/>	Amount used: <input style="width: 50px;" type="text" value="0.25"/> <input style="width: 50px;" type="text" value="ml"/>	Period of use (hrs): <input style="width: 50px;" type="text" value="0.1"/>	
W.E.L. (Itel / stel) <input style="width: 100%;" type="text"/>	The process is: <input style="width: 100%;" type="text" value="Semi Closed"/>	Physical State: <input style="width: 100%;" type="text" value="Non-Volatile Liquid"/>	Exposure Potential Low
			<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P202 Do not handle until all safety precautions have been read and understood.	X
	P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.	X
	P314 Get medical advice/attention if you feel unwell.	X

How will the precautions listed above be implemented?	
The work will occur on ice. PPE will be worn (gloves, lab coat, shoe covers). Very small amounts of 1-24ul will be used and care taken when pipetting.	
Special Storage and Containment Measures	Disposal Method
Aliquots stored at -20C.	Biological waste, disposed through cell work. Aspirated and virkon added in reference to SOP 003.
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. Click here to see spill procedures</i>
Biological spill kit and refer to SOP038.	

CHEMICAL NAME IL6 (Hs00985639_m1)		Hazard Rating Low	OVERALL RISK: Low
CAS No. <input style="width: 100%;" type="text"/>	Amount used: <input style="width: 50px;" type="text" value="0.25"/> <input style="width: 50px;" type="text" value="ml"/>	Period of use (hrs): <input style="width: 50px;" type="text" value="0.1"/>	
W.E.L. (Itel / stel) <input style="width: 100%;" type="text"/>	The process is: <input style="width: 100%;" type="text" value="Semi Closed"/>	Physical State: <input style="width: 100%;" type="text" value="Non-Volatile Liquid"/>	Exposure Potential Low
			<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P202 Do not handle until all safety precautions have been read and understood.	X
	P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.	X
	P314 Get medical advice/attention if you feel unwell.	X

How will the precautions listed above be implemented?	
The work will occur on ice. PPE will be worn (gloves, lab coat, shoe covers). Very small amounts of 1-24ul will be used and care taken when pipetting.	
Special Storage and Containment Measures	Disposal Method
Aliquots stored at -20C.	Biological waste, disposed through cell work. Aspirated and virkon added in reference to SOP 003.
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. Click here to see spill procedures</i>
Biological spill kit and refer to SOP038.	

COSHH Form (Continued)

CHEMICAL NAME Taqman Master Mix (contains glycerin)						Hazard Rating Low		OVERALL RISK: Low			
CAS No.	56-81-5	Amount used	5 ml	Period of use (hrs)	0.1	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
W.E.L. (Itel / stel)											

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P202 Do not handle until all safety precautions have been read and understood.	x
	P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.	x
	P314 Get medical advice/attention if you feel unwell.	x
How will the precautions listed above be implemented?		
This work will occur on ice. PPE will be worn (gloves, lab coat, shoe covers). Small amounts of 500ul will be used and care taken when pipetting.		
Special Storage and Containment Measures	Disposal Method	+
Keep at 4 degree.	Biological waste, disposed through cell work. Aspirated and virkon added in reference to SOP 003.	x
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.</i> Click here to see spill procedures	
Biological spill kit and refer to SOP038.		

[+ Add another chemical](#)

Statement of work (Process to be undertaken)

Levels of these aging markers will be measured in senescent and proliferating cells.	Show image
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Personal protection requirements not covered in the precaution statements above.

PPE including lab coat, shoe covers, gloves.
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Sources of information and references

Safety Data Sheet ThermoFisher Scientific

Reference to **existing approved** Risk Assessment

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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

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

SAF/MEME/2120 - 2124

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:

21 Nov 2024

Review comments