

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 [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	CBE
Originator name	Janelle Tarum, Yu Xiang, Alexandra Stolzing
email address	j.tarum@lboro.ac.uk
Location	H25, H27, H34
Project / Activity / Task	Wellcome Project: A volatilome-based signature for age-related recovery & resilience
Supervisor Name	Alexandra Stolzing

COSHH Form

Reference

SAF/MEME/2336 - 2342

Location




H25, H27, H34

Originator

Janelle Tarum, Yu Xiang, Alexandra S

Project / Activity / Task

Wellcome Project: A volatilome-based signature for age-related recovery & resilience

CHEMICAL NAME <div>cDNA synthesis and PCR kit</div>	  			<div>Hazard Rating</div> <div>High</div>	<div>X</div> <div>OVERALL RISK:</div> <div>Low</div>		
CAS No. <div></div>	Amount used <div>0.01 ml</div>	Period of use (hrs) <div>0.5</div>	The process is: <div>Semi Closed</div>	Physical State <div>Non-Volatile Liquid</div>		<div><input checked="" type="checkbox"/> Eyes</div> <div><input checked="" type="checkbox"/> Skin</div> <div><input type="checkbox"/> Inhaled</div> <div><input checked="" type="checkbox"/> Ingested</div>	<div>Exposure Potential</div> <div>Low</div>
W.E.L. (Itel / stel) <div></div>							

Hazard Statement and Description	Precaution Statement and Description	
H410 Very toxic to aquatic life with long lasting effects.	P280 Wear protective gloves/protective clothing/eye protection/face protection.	X
H400 Very toxic to aquatic life.	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	X
H302 Harmful if swallowed.	P262 Do not get in eyes, on skin, or on clothing.	X
H315 Causes skin irritation.	P234 Keep only in original container.	X
H318 Causes serious eye damage.		X
How will the precautions listed above be implemented?		
Wear the correct PPE. Ensure adequate ventilation. Work under the Chemical Fume hood. Use small aliquots. Avoid spillages. Keep the work surface clean and organized. Only small amounts of chemicals will be used (<1ml).		
Special Storage and Containment Measures	Disposal Method	
Must be stored in a room temperature in the Kit, correctly labelled.	Aqueous waste - dispose via appropriate chemical waste stream (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. Click here to see spill procedures	
Other - Chemical Spill Kit. SOP039		

CHEMICAL NAME <div>Pierce™ Rapid Gel Clot Endotoxin Assay Kits</div>	<div>Hazard Rating</div> <div>Low</div>			<div>X</div> <div>OVERALL RISK:</div> <div>Low</div>			
CAS No. <div></div>	Amount used <div>0.01 ml</div>	Period of use (hrs) <div>1</div>	The process is: <div>Semi Closed</div>		Physical State <div>Non-Volatile Liquid</div>	<div><input type="checkbox"/> Eyes</div> <div><input type="checkbox"/> Skin</div> <div><input type="checkbox"/> Inhaled</div> <div><input type="checkbox"/> Ingested</div>	<div>Exposure Potential</div> <div>Low</div>
W.E.L. (Itel / stel) <div></div>							

Hazard Statement and Description	Precaution Statement and Description	
No Hazard Statements applicable	No Precaution statements applicable	X
How will the precautions listed above be implemented?		
N/A		
Special Storage and Containment Measures	Disposal Method	
Store at 2-8 °C fridge in the Kit with correctly labelled.	Biological waste (See specific RA)	X

COSHH Form (Continued)

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. Click here to see spill procedures											
Spill kit													
CHEMICAL NAME										Hazard Rating		X	
Formamide										High		OVERALL RISK:	
CAS No.	75-12-7	Amount used	Period of use (hrs)	The process is:	Physical State	<input type="checkbox"/> Eyes	<input type="checkbox"/> Skin	<input type="checkbox"/> Inhaled	<input type="checkbox"/> Ingested	Exposure Potential	Medium		
W.E.L. (Itel / stel)		1	ml	0.5	Semi Closed	Volatile Liquid				Low			
This chemical has a high health risk associated with it.													
Hazard Statement and Description				Precaution Statement and Description								+	
H351 Suspected of causing cancer.				P201 Obtain special instructions before use.								X	
H360FD May damage fertility. May damage the unborn child.				P280 Wear protective gloves/protective clothing/eye protection/face protection.								X	
H373 May cause damage to organs through prolonged or repeated ex				P308 + P313 IF exposed or concerned: Get medical advice/attention.								X	
Justify the use of this chemical:				The small amount of chemical will be used (maximum 1 mL) after viscosity test. The chemical is used to prepare nanodiamond solution for potential cryopreservation solution test.									
How will the precautions listed above be implemented?													
Wear appropriate PPEs, gloves, lab coat, safety glasses and show cover. Work in the fume hood.													
Special Storage and Containment Measures				Disposal Method								+	
Keep containers tightly closed in a dry, cool and well-ventilated place.				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. Click here to see spill procedures									
Spill kit													
CHEMICAL NAME										Hazard Rating		X	
Ethylene glycol										High		OVERALL RISK:	
CAS No.	107-21-1	Amount used	Period of use (hrs)	The process is:	Physical State	<input type="checkbox"/> Eyes	<input type="checkbox"/> Skin	<input type="checkbox"/> Inhaled	<input checked="" type="checkbox"/> Ingested	Exposure Potential	Medium		
W.E.L. (Itel / stel)		1	ml	0.5	Semi Closed	Non-Volatile Liquid				Low			
Hazard Statement and Description				Precaution Statement and Description								+	
H302 Harmful if swallowed.				P280 Wear protective gloves/protective clothing/eye protection/face protection.								X	
H373 May cause damage to organs through prolonged or repeated ex				P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.								X	
How will the precautions listed above be implemented?													
Wear appropriate PPEs, gloves, lab coat, safety glasses and show cover. Work in the fume hood.													
Special Storage and Containment Measures				Disposal Method								+	
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame				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. Click here to see spill procedures									
Spill kit													

COSHH Form (Continued)

CHEMICAL NAME <div>N-methylformamide</div>		<div></div> <div>Hazard Rating High</div>				<div>X</div> <div>OVERALL RISK: Medium</div>	
CAS No. 123-39-7	Amount used 1 ml	Period of use (hrs) 0.5	The process is: Semi Closed	Physical State Non-Volatile Liquid	<input checked="" type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential Low	
W.E.L. (Itel / stel)							

This chemical has a high health risk associated with it.

Hazard Statement and Description	Precaution Statement and Description	
H312 Harmful in contact with skin.	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove	X
H319 Causes serious eye irritation.	P280 Wear protective gloves/protective clothing/eye protection/face protection.	X
H360D May damage the unborn child.	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.	X
	P308 + P313 IF exposed or concerned: Get medical advice/attention.	X
Justify the use of this chemical:	The small amount of chemical will be used (maximum 1 mL) after viscosity test. The chemical is used to prepare nanodiamond solution for potential cryopreservation solution test.	
How will the precautions listed above be implemented?		
Wear appropriate PPEs, gloves, lab coat, safety glasses and show cover. Work in the fume hood.		
Special Storage and Containment Measures	Disposal Method	
Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame.	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. Click here to see spill procedures	
Spill kit		

CHEMICAL NAME <div>3-methoxy-1,2-propanediol</div>		<div></div> <div>Hazard Rating High</div>				<div>X</div> <div>OVERALL RISK: Low</div>	
CAS No. 40137-22-2	Amount used 1 ml	Period of use (hrs) 0.5	The process is: Semi Closed	Physical State Non-Volatile Liquid	<input checked="" type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential Low	
W.E.L. (Itel / stel)							

Hazard Statement and Description	Precaution Statement and Description	
H314 Causes severe skin burns and eye damage.	P280 Wear protective gloves/protective clothing/eye protection/face protection.	X
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove	X
How will the precautions listed above be implemented?		
Wear appropriate PPEs, gloves, lab coat, safety glasses and show cover. Work in the fume hood.		
Special Storage and Containment Measures	Disposal Method	
Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place	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. Click here to see spill procedures	
Spill kit		

COSHH Form (Continued)

CHEMICAL NAME Polyvinyl pyrrolidone average M.W. 3500 K12						Hazard Rating Low	<div>X</div> OVERALL RISK: Low
CAS No. 9003-39-8	Amount used 0.2 g	Period of use (hrs) 0.5	The process is: Semi Closed	Physical State Lyophilised Solid	<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential Low	
W.E.L. (Itel / stel)							

Hazard Statement and Description	Precaution Statement and Description	
No Hazard Statements applicable	No Precaution statements applicable	X
How will the precautions listed above be implemented?		
N/A		
Special Storage and Containment Measures	Disposal Method	
Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct	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. Click here to see spill procedures	
Spill kit		

+ Add another chemical

Statement of work (Process to be undertaken)

Show image

Personal protection requirements not covered in the precaution statements above.

If Inhaled
Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In Case of Skin Contact
Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In Case of Eye Contact
Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

If Swallowed
Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

Sources of information and references

<https://www.bioline.com/mwdownloads/download/link/id/3084/>
<https://www.bioline.com/mwdownloads/download/link/id/2889/>
https://www.thermofisher.com/document-connect/document-connect.html?url=https://assets.thermofisher.com/TFS-Assets%2FSLSG%2FSDS%2F1897574_MTR-EULT_BE.pdf
<https://assets.thermofisher.com/DirectWebViewer/private/document.aspx?prd=ACR32723~~PDF~~MTR~~CLP1~~EN~~2023-10-01%2009:22:56~~Formamide~~>
<https://assets.thermofisher.com/DirectWebViewer/private/document.aspx?prd=ACR14675~~PDF~~MTR~~CLP1~~EE~~2023-09-22%2014:01:57~~Ethylene%20glycol~~>
<https://assets.thermofisher.com/DirectWebViewer/private/document.aspx?prd=ALFAAL03908~~PDF~~MTR~~CLP1~~EN~~2024-02-21%2012:15:56~~N-Methylformamide~~>

Reference to **existing approved** Risk Assessment

COSHH Form (Continued)

https://assets.thermofisher.com/DirectWebViewer/private/document.aspx?
prd=ALFAAL12653~~PDF~~MTR~~CLP1~~EN~~2024-02-06%
2023:15:34~~3-Methylamino-1%202-propanediol~~
https://assets.thermofisher.com/DirectWebViewer/private/document.aspx?
prd=ACR27614~~PDF~~MTR~~CLP1~~EN~~2023-09-30%
2004:00:07~~Polyvinylpyrrolidone%20%20average%20M.W.%203500~~

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

SAF/MEME/2336 - 2342

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:

27/03/2025

Review comments