

## 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    [- ] 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	School of Aeronautical, Automotive, Chemical and Materials Engineering
Department	Department of Chemical Engineering
Originator name	Jenna Davis
email address	j.davis@lboro.ac.uk
Location	CBE
Project / Activity / Task	Fish Oils as antimicrobials
Supervisor Name	Dr Elizabeth Ratcliffe


# COSHH Form

Reference

Location


Originator

Project / Activity / Task

<b>CHEMICAL NAME</b>					Hazard Rating <b>High</b>	<b>OVERALL RISK:</b> <b>Medium</b>
<input type="text" value="Cefaclor"/>					<b>High</b>	
CAS No. <input type="text" value="53994-73-3"/>	Amount used <input type="text" value="0.2"/> <input type="text" value="g"/>	Period of use (hrs) <input type="text" value="2"/>	The process is: <input type="text" value="Semi Closed"/>	Physical State <input type="text" value="Non-Volatile Liquid"/>	<input type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential <b>Low</b>
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	
<input type="text" value="H317 May cause an allergic skin reaction."/>	<input type="text" value="P280 Wear protective gloves/protective clothing/eye protection/face protection."/>	<b>X</b>
<input type="text" value="H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled."/>	<input type="text" value="P261 Avoid breathing dust/fume/gas/mist/vapours/spray."/>	<b>X</b>
<input type="text"/>	<input type="text" value="P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/poison specialist."/>	<b>X</b>
Justify the use of this chemical:	<input type="text" value="This chemical is needed as a positive control in antimicrobial susceptibility testing and is effective against all of the organisms outlined in BRA CBE167"/>	
How will the precautions listed above be implemented?		
<input type="text" value="Cefaclor will be dissolved in PBS prior to application to the work. Only to be used and prepared within the confines of the BSC, so risk of inhalation is greatly reduced. Use of PPE including gloves and lab coats minimise risk of contact with the skin"/>		
Special Storage and Containment Measures	Disposal Method	
<input type="text" value="Store in a cool dry place in tightly sealed containers"/>	<input type="text" value="Cefaclor requires incineration, waste will be collected and disposed of via the cytotoxic purple waste stream."/>	<b>X</b>
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>	
<input type="text" value="Absorbent cloth / tissue"/>		

<b>CHEMICAL NAME</b>					Hazard Rating <b>Medium</b>	<b>OVERALL RISK:</b> <b>Low</b>
<input type="text" value="Resolvin D2"/>					<b>Medium</b>	
CAS No. <input type="text" value="810668-37-2"/>	Amount used <input type="text" value="0.05"/> <input type="text" value="ml"/>	Period of use (hrs) <input type="text" value="2"/>	The process is: <input type="text" value="Semi Closed"/>	Physical State <input type="text" value="Volatile Liquid"/>	<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential <b>Low</b>
W.E.L. (Itel / stel) <input type="text"/>						

Hazard Statement and Description	Precaution Statement and Description	
<input type="text" value="H225 Highly flammable liquid and vapour."/>	<input type="text" value="P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking."/>	<b>X</b>
<input type="text" value="No Hazard Statements applicable"/>	<input type="text" value="P280 Wear protective gloves/protective clothing/eye protection/face protection."/>	<b>X</b>
<input type="text" value="No Hazard Statements applicable"/>	<input type="text" value="P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing."/>	<b>X</b>
How will the precautions listed above be implemented?		

## COSHH Form (Continued)

Use of full PPE - lab coats, gloves, shoe covers and goggles when needed. Flammable component is ethanol used to store the substance. Will be stored in the freezer until use, when no more than 0.05mL is suspended in 8mL PBS, making the ethanol highly dilute.		
Special Storage and Containment Measures	Disposal Method	+
Store in a tightly sealed container away from heat, sparks and flame. Chemical is stored in the freezer at -80C	Biological waste (See specific RA)	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. <a href="#">Click here to see spill procedures</a></i>	
Absorbent cloth / tissue		

+ Add another chemical

Statement of work (Process to be undertaken)

Used in bacterial killing assay as outlined in BRA167

Show  
image

Personal protection requirements not covered in the precaution statements above.

Sources of information and references

MSDS from supplier

Reference to **existing approved** Risk Assessment

CBE167

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

19MP-ER-0010

Method Statement

19MP-ER-0010

COSHH Assessment

19MP-ER-0010

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