

# COSHH Risk Assessment

## Control of Substances Hazardous to Health Regulations 2002



All substances classified as 'Hazardous to Health', in accordance with the Control of Substances Hazardous to Health Regulations, must be suitably risk assessed.

Prior to completing this assessment, consideration should first be given to;

1. Eliminating the hazardous substance and therefore the need to complete an assessment.
2. Substituting the hazardous substance for a less hazardous one and therefore reducing the risk.

### Section 1

<b>Product Name/Hazardous Substance;</b>	Citric Acid Anhydrous
<b>Description of Substance</b>	Pharmaceutical Grade and Food additive: E330
<b>Task/Activity/Process Substance is used, applied or generated:</b>	Leachate system cleaning, used to clean sparge tanks and pipelines of biofilm and sediment build up.

**What is the likelihood of harm occurring if the substance is used INCORRECTLY?**



Low risk



Medium risk



High risk

### Section 2










For those products labelled as 'Dangerous for Supply' i.e. the label contains one or more hazard warning symbols, the manufacture's/supplier's 'Material Safety Data Sheet' (MSDS) must be obtained and used to complete this assessment;

Is the product Labelled as 'Dangerous for Supply'?

Yes ☐

No ☒ If 'No' go to Section 3

If 'Yes', state the category;

 <input type="checkbox"/> Acute Toxicity	 <input type="checkbox"/> Corrosive	 <input type="checkbox"/> Health Hazard/ Hazardous to the Ozone Layer
 <input type="checkbox"/> Gas Under Pressure	 <input type="checkbox"/> Serious health hazard	 <input type="checkbox"/> Explosive
 <input type="checkbox"/> Oxidising	 <input type="checkbox"/> Flammable	 <input type="checkbox"/> Hazardous to the environment

Has a current copy of the product MSDS been attached to this assessment?

Yes ☒

No ☐

List the Risk Phrases identified on the MSDS (in full);

36.Irritating to eyes

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Date of Issue: 26<sup>th</sup> July 2016  
Page 1 of 6

Document control: EMS 5-COSHH Assessment Template and Guidance-FA-DOC-190-GB-1

List the Safety Phrases identified on the MSDS (in full);

26. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### Section 3

Identify the particular groups at risk;

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Employees	Public	Contractors	Visitors	Pregnant Workers
<input type="checkbox"/>	Others <i>please specify</i> ADD TEXT HERE			

Is there a Workplace Exposure Limit (WEL)?  
If 'Yes' provide details;

Yes ☐ No ☒

Is health surveillance or monitoring required?  
If 'Yes' provide details;

Yes ☐ No ☒

### Section 4

Form of the Hazardous Substance

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gas	Vapour	Mist	Fume	Dust	Liquid	Solid	Smoke	Fibre
<input checked="" type="checkbox"/>	Others <i>please specify</i> Colourless powder of crystals							

Routes of exposure associated with the Hazardous Substance

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inhalation	Contact/Absorption; on; Skin	Contact/Absorption; Eyes	Ingestion	Injection

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Page 2 of 6

Document control: EMS 5-COSHH Assessment Template and Guidance-FA-DOC-190-GB-1








## Section 5

**Control Measures:** (apply the Hierarchy of Control and principles of good practice, see guidance notes).

Effective dust masks, gloves, safety glasses, overalls and boots.

Always wash hands thoroughly following exposure.

### Personal Protective Equipment to be used (please state type and standard)

 <input checked="" type="checkbox"/> Filter Mask		 <input type="checkbox"/> Visor	
 <input type="checkbox"/> Respirator		 <input checked="" type="checkbox"/> Goggles	
 <input checked="" type="checkbox"/> Gloves		 <input checked="" type="checkbox"/> Overalls	
 <input checked="" type="checkbox"/> Footwear		<input type="checkbox"/> Other	

### Action required

How will employees be informed of the assessment?  
(ensure that a suitable record of the process is maintained)

Verbally\* ☒

Written ☐

Please specify:

Substance is to be used by a contractor. MWDA will inform contractor of risk of product and PPE requirements.

*\*It is poor practice to **only** issue written guidance*

Is specific training required?

Yes ☐

No ☒

If 'Yes' provide details:

ADD TEXT HERE

## Section 6

### First Aid Measures (take into consideration the 'routes of exposure')

Dust may irritate respiratory tract: Remove from exposure and seek medical attention in severe cases

Skin contact: Drench skin with water, remove contaminated clothing and wash before reuse. Seek medical attention if large areas of skin are affected.

Eye contact: irrigate with water for at least 10 minutes, seek medical attention

Ingestion: Wash out mouth with water, if patient is conscious give water to drink, seek medical attention if patient feels unwell.

### Storage

Stored in polythene or polythene coated bags, in a cool dry environment.

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Issue: 02

Date of Issue: 26<sup>th</sup> July 2016  
Page 3 of 6

Document control: EMS 5-COSHH Assessment Template and Guidance-FA-DOC-190-GB-1

### Fire Precautions

Keep away from sources of ignition.

Releases oxides of carbon upon combustion.

Extinguish with water, water spray, dry powder, foam or carbon dioxide

### Transport

No restrictions

### Spillage

Sweep up and shovel into suitable containers for waste disposal of large spills. Subsequently wash spill site with plenty of water.

### Waste Disposal

Substance: Dispose of via an authorised and suitable licenced waste disposal contractor.

Container: as substance

There are no restrictions listed in the document restricting disposal to sewer. However, consideration must be given to the pH of the discharge following treatment in order to comply with MWDA's TEDC.

Assessed by: Graeme Bell

Date: 29/9/2016

Review Date\*\*: 29/9/2021

Reviewed by: Tony Byers

Date: 29/09/16

Review Date\*\*: 29/09/21

Approved by: Tony Byers

Date: 29/09/16

Review Date\*\*: 29/09/21

*\*\*The assessment should be reviewed under the following circumstances;*

*There is reason to suspect that the assessment is no longer valid. There has been significant change in the work to which the assessment relates; or in any case every 5 years.*

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Page 4 of 6

Document control: EMS 5-COSHH Assessment Template and Guidance-FA-DOC-190-GB-1

# COSHH Risk Assessment

## Guidance for Completion

### What is a hazardous substance

All substances classified as Hazardous to Health in accordance with the Regulations must be suitably risk assessed.  
(See Section 2)

Please note that the new international symbols have replaced the old orange square symbols. However, you may still find some with the old pictograms until 1 June 2017.



Very toxic



Toxic



Corrosive



Harmful



Irritant

- Have a Workplace Exposure Limit (WEL)
- Any other dusty process or exposure other than those with a WEL
- Biological agent used at work
- Any substance that creates a risk to health because of its properties and the way it is used or is presented in the workplace

### Routes of Exposure

**Inhalation** Once inhaled, some substances can affect the nose, throat, and lungs. Should a substance enter the lungs, it may also pass into the circulatory system where it may affect other areas of the body.

**Absorption** Some substances affect the skin directly; others may pass through the skin, or enter the body through cuts/abrasions. Some may also be absorbed through the eyes.

**Ingestion** People transfer chemicals from their hands to their mouths by eating, smoking etc. due to failing to wash their hands.

**Puncture** Through accidental puncture of the skin e.g. sharp objects contaminated with chemicals.

### Principles of good control practice

- Design and operate processes and activities to minimise emission, release and spread of substances hazardous to health.
- Take into account all relevant routes of exposure – inhalation, skin absorption and ingestion – when developing control measures.
- Control exposure by measures that are proportionate to the health risk.
- Choose the most effective and reliable control options, which minimise the escape and spread of substances hazardous to health.
- Where adequate control of exposure cannot be achieved by other means, provide, in combination with other control measures, suitable personal protective equipment.
- Check and review regularly all elements of control measures for their continuing effectiveness.
- Inform and train all employees on the hazards and risk from the substances they work with and the use of control measures developed to minimise the risks.
- Ensure that the introduction of control measures does not increase the overall risk to health and safety.

### Further Information

Further guidance on COSHH assessments is available in HSE publication INDG136  
(<http://www.hse.gov.uk/pubns/indg136.pdf>)