ChemBam



SAFETY SHEET

Imaging Metal Corrosion - corrosion in pre-plated agar gels

Substance	Hazard	Comment
Pre-made phenolphthalein agar plates (white)		R22 Harmful if swallowed – Agar gel Plates contain agar, NaCl and phenolphthalein indicator
	V	solution (0.5 mL per plate) As a precaution: WASH HANDS AFTER HANDLING AGAR
Pre-made universal indicator agar plates	\wedge	R22 Harmful if swallowed – Agar gel
(green/yellow)		Plates contain agar, NaCl and universal indicator solution (0.5 mL per plate)
		As a precaution: WASH HANDS AFTER HANDLING AGAR
Steel Nails	-	Quite sharp
Copper wire	-	None

Typical control measures to reduce risk

- Plates pre-made so that risk of irritation by the indicators is minimised
- Plates contain dilute indicators set in agar minimal risk of inhalation/eye irritation, and not flammable
- Remind students to wash hands after touching agar

Assessing the risks

- What are the details of the activity to be undertaken? What are the hazards? Students push nail into preplated agar.
- What is the chance of something going wrong? Eg, Is there the possibility of theft or foolish behaviour?
- How serious would it be if something did go wrong?
- How can the risk(s) be controlled for this activity? Eg, Can it be done safely? Does the procedure need to be altered? Should goggles or safety spectacles be worn?

Emergency action

If agar contaminates the eye, flood with gently running tap In the eye

water for 10 minutes.

If agar is ingested, do no more than wash mouth out and **Swallowed**

get medical advice

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Spilt on the floor, bench, etc Sweep up and dispose in a bin



