



School Of Medicine Biomedical Sciences

COSHH Risk Assessment Form

Before any experimental procedure involving the use of chemicals or reagents is undertaken, potential hazards must be identified and an assessment made of the risks posed by these hazards in the work activity in which they are involved. This risk assessment is a legal requirement to comply with the Control of Substances Hazardous to Health (CoSHH) Act and is the responsibility of the research workers supervising the research projects. Before undertaking experimental procedures, all members of staff must read and sign the relevant CoSHH assessments

Title of Procedure: Preparation of 10% buffered Formalin

Labs Involved: Section of Onc

Brief Description: Preparation of 10% Formalin solution from concentrated formaldehyde stock solution

Procedure No: 89

Please note: Known carcinogens, teratogens and mutagens should only be used in consultation with senior staff and the Departmental Safety Officer. All user must have read University supplementary Code of Practice for the use of such substances and comply with its recommendations. It is important to realise that the use of certain carcinogens is banned by law.

<i>Chemical/Reagent</i>	<i>Hazard</i>	<i>Stock Volume/ Quantity</i>	<i>Emergency Action</i>	<i>Risk level</i>	<i>Precautions</i>	<i>Disposal</i>
Sodium dihydrogen orthophosphate dihydrate	May irritate eye & respiratory system. May evolve toxic fume in fires	80g	Irrigate affected area with tap water.	Low	Wear gloves.	In accordance with local regulations
40% Formaldehyde	Harmful by inhalation, skin absorption, swallowing. Potentially carcinogenic. Flammable	50ml	Irrigate area affected with tap water. Move to fresh air	Low	Wear gloves. Use in hood.	See Special Precautions

DiSodium hydrogen orthophosphate dihydrate	May irritate eye & respiratory system. May evolve toxic fume in fires	130g	Irrigate affected area with tap water	Low	Wear gloves.	In accordance with local regulations
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Good Laboratory Practice should be adhered at all times

- Common sense at all times!
- Never eat, drink or apply cosmetics in the laboratory.
- Wash your hands in the designated sinks whenever you have finished your lab work.
- Be familiar with the potential hazards involved in your work and take appropriate precautions.
- Wear protective clothing as needed, lab coats are a minimum.
- Keep your work area clean and tidy.
- Dispose of materials appropriately.
- Use appropriate care with electrical equipment.
- Use appropriate care with sharps
- Use appropriate care with substances of extreme temperatures (liquid nitrogen or hot liquids)
- Operate maintain and service all your equipment properly, if in doubt ask!
- Work in appropriate containment hoods where necessary.

Precautions to be taken:

Special Precautions:

Formaldehyde spillages should be contained using a spill containment kit as instructed. Inform others to keep at safe distance. Transfer to suitable container and arrange removal by disposal company. Wash spill site thoroughly

Assessed by: Yvonne Stephe **Date:** 11.03.2008

Approved by S.Haynes

Date approved: 14.02.2019