

Risk Assessment Form

Procedure	Use of Ice Machine
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Name(s) of person performing the work	Users (Lab manager & Lab Technician & Tenants & Licensees)		
Name & position of assessor	Khwaja Islam & Laboratory Manager	Signature	
Date of assessment	01/10/2018	RA Number	BioE 0013

Outline of procedure / activity:

The ice maker (Hoshizaki FM-150KE) is a commercial icemaker, and should be destined only to be used for the purpose for which it has been expressly designed and attached to a suitable storage bin as specified by Hoshizaki. Any other use should be considered improper and therefore dangerous. The manufacturer will not be held liable or responsible for any damage caused by improper, incorrect and unreasonable use. Daily output 125kg, bin capacity 57kg, produces flake ice. Normal operating ambient temperature should be within 5°C to 40°C. Normal operating water temperature should be within 5°C to 35°C. Operation of the icemaker, for extended periods, outside of these normal temperature ranges may affect production capacity. Ice machine (flaker) is located in the chemistry lab (696.10.23).

Operation Procedure:

The installer will normally commission the icemaker to start the automatic ice making process. To ensure continuous operation, make sure that:

- The water supply tap is on, and
- The icemaker is connected to the power supply.

To start the ice making process, check the position of the operation switch on the operation panel:

“OFF” position - Move it to the “ON” position.

“ON” position - Press the ice button.

Shut down:

Push the stop button on the operation panel. The display will blink in the “STOP” mode for 15 minutes during the drain control operation and will start to illuminate constantly at the end of drain control.

Operator must be trained in ice maker to guarantee safe daily use. Untrained Personnel are not be allowed to operate the fume cupboard. Users should operate the ice maker according to instructions in the manual.

Safety precautions:

- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not damage the power cord or pull it in order to disconnect the icemaker from the electrical supply network.

- Do not touch the electrical parts or operate the switches with damp hands.
- Do not attempt to modify the icemaker. Only qualified personnel may disassemble or repair the appliance.
- Instances of high humidity and moisture increase the risk of electrical short circuits and potential electrical shocks. If in doubt, disconnect the icemaker.
- The icemaker should not be located next to ovens, grills or other high heat producing equipment.
- The location should provide a firm and level foundation for the icemaker.
- Disconnect the main power supply before any maintenance, repairs or cleaning is undertaken.
- If the unit is turned off, wait for at least 3 minutes before restarting the icemaker to prevent damage to the compressor.
- Wash your hands before removing ice. Use the plastic scoop provided (accessory).
- The storage bin is for ice use only. Do not store anything else in the bin nor use other electrical appliances or chemical storage in the bin.
- Keep the scoop clean. Clean it by using a neutral cleaner and rinse thoroughly.
- Close the door after removing ice to prevent entrance of dirt, dust or insects into the storage bin.
- This icemaker will not work at subfreezing temperatures. To prevent damage to the water supply line, drain the icemaker when air temperature is below zero.
- When shutting down the icemaker for two or more days, drain the icemaker to prevent contamination in the water circuit.
- Ask a trained service person to clean and sanitize the icemaker water system at least twice a year and to check and clean the condenser at least once a year.
- To prevent possible damage, do not clean the plastic parts with water above 40°C or in a dishwasher.
- Ice maker should not be used to chill drinks or food or chemicals.

Potential hazards

Substance or item handled	Associated Hazard (s)	Existing Control Measures	Risk (L/M/H)	Further Action required	Risk (L/M/H)
Use of ice machine.	Electrical hazard - Electrical shock – danger of death.	Only switch on the device if the device and power cable are undamaged. The device has been properly installed and there is a preventative maintenance in place. Only trained personal are allowed to use the ice machine. Ice machine is earthed, protective earth connection for the machine is provided using 13A plug fitted to the machine (RCD protected). Make sure it has been PAT tested.	L	No further action required if the existing control measures are adhere to.	L

Persons potentially at risk:

Only the user or others near by

Action in event of an accident or emergency:

1. **Fire:** raise the fire alarm and evacuate the area.

Arrangements for monitoring effectiveness of control:

Daily inspection of equipment by lab technician.

Annual preventative maintenance carried by external contractor of ice machine.

Instruction and training given to all operators which is reviewed annually.

Existing operators receive annual refresher training.

Annual pat testing by external contractor.

Arrangements for monitoring effectiveness of control:**Review of the Risk Assessment:**

Date of review		Name of reviewer	
Date of next review		Signature	

Have the control measures been effective in controlling the risk?

Yes	No
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Have there been any changes in the procedure or in the information available which affect the estimated level of risk from the listed substances

Yes	No
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What changes to the control measures are required?

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Declaration by Tenant/Licensee/Technician:

I confirm that I have read this Risk Assessment and that I understand the hazards and risks involved and will follow all of the safety procedures stated. Where PPE has been identified as a control measure, I will ensure that it is worn.

Declaration by Laboratory Manager (LM):

I confirm that the tenant/licensee/technician who has signed below is competent to undertake the work. My counter-signature indicates that I am happy for the work to proceed.

Name (Please print)	Signature	LM Countersignature	Date



Name (Please print)	Signature	LM Countersignature	Date