

Decanting of Liquid Nitrogen (LN2)

Standard Operating Procedure

Users of the School's facilities are requested to observe the following items.

ITEMS

1. Personal Protective Equipment (PPE)
2. Dewar for transporting LN2
3. Site clearance around LN2 tank
4. Decanting operation
5. First Aid

DETAILS

1 Personal Protective Equipment (PPE)

Long gloves that protect the hands and wrists
Full face shield with chin guard
Coat with long sleeves to protect the arms
Coat sleeves to be over gloves to prevent LN2 splashing into glove
Closed shoes.

2 Dewar should have:

Sturdy handles for carrying dewar
Loose fitting lid to allow gas to escape

3 Site should be prepared:

Leave the gate open
Clear workspace of unnecessary equipment and obstacles
Know where the water tap is located
Be fully clothed/protected with PPE before approaching the LN2 tank
Do not let curious onlookers approach/look into the dewar while it is being filled. (It happened to me a few times)

4 Decanting operation requirements:

Locate dewar near tank
Do not stretch between control valve and dewar
Always have a hand on the control valve for a quick shutoff of LN2
Always remember to turn the control valve **CLOCKWISE** to stop LN2

5 FIRST-AID.

At the first sign of trouble: **SHUT OFF LN2**
Immediately remove gloves or clothing to allow LN2 to escape
Quickly flush the affected area with tap water for a few minutes
Obtain medical assistance ASAP (see attached panel)
DO NOT smoke a cigarette or drink alcohol

EMERGENCY: call SECURITY x46666 or 1800 246 066

(My Location is: Liquid Nitrogen Tank behind the Old Chemistry Building)