

# Handling Liquid Nitrogen



# Health & Safety Update

## Properties

-196 degrees centigrade	non toxic	non flammable
non explosive	colourless	odourless
asphyxiant	cryogenic	

## Rules for safe usage

avoid contact with skin	wear protective gloves
always wear eye protection	always wear suitable footwear
always handle in well ventilated place	store upright and secured
never put anything on top of flask	

## First Aid

Cold Burns	treat as frostbite, pour tepid water onto affected area, if blistered seek medical advice. Cover with sterile dressing. Never use dry heat
Eye Contact	Eye should be washed out for at least 15 minutes. Do not force eye lids open. Seek medical assistance
Asphyxiation	If a person becomes dizzy or loses consciousness remove to a well ventilated area only when without risk to yourself. Seek medical assistance

## Storage & Transportation

### Before filling

Check external parts for signs of damage - report any damage to Field Support Manager or Sales Manager

Check inside for signs of water

Ensure correct bung is used & not damaged

Place on flat surface

### Filling

- Ensure adequate ventilation
- Use correct PPE (gloves, footwear, glasses)
- Do not breathe vapour
- Use phase separator

### After filling

- Remove and store hose correctly
- Check neck for excessive frosting
- Replace bung (beware of over fill splashing)
- Ensure bulk tank location is secured

### Storage

For transportation flasks and dewars containing LN2 must be secured and locked in the sealed compartment of a Genus van. Under no circumstance can they be transported in any other vehicle

Flasks and dewars should not be stored out of vans at home address or where family members and non Genus employees would be able to gain access to the flasks. In the case of nominated drivers and other non Genus employees at no time should they have access to the sealed compartment of the van where the tanks are stored.

