

## CLEAPSS advice on handling liquid nitrogen in schools

(<http://www.cleapss.org.uk/>)

*This is an extract from Section 11 of the CLEAPSS Laboratory Handbook which is supplied to all member secondary schools and colleges (but not to primary schools) on the CLEAPSS Science Publications CD-ROM and on paper.*

- |   |  |   |
|---|--|---|
| m | <b>Liquid nitrogen</b>   | <p>The use of liquid nitrogen allows exciting and thought-provoking demonstrations but there are significant hazards, the risks from which must be controlled. They are:</p> <ul style="list-style-type: none"><li>• asphyxiation in oxygen-deficient atmospheres;</li><li>• fire in oxygen-enriched atmospheres;</li><li>• cold burns, frost bite &amp; hypothermia from the intense cold;</li><li>• over-pressurisation from the large volume expansion of the liquid;</li><li>• manual-handling accidents if using large (25 litre) volumes.</li></ul> <p>There are also risks associated with the transport of liquid nitrogen.</p>   |
| m | <b>Asphyxiation in oxygen-deficient atmospheres</b>                      | <p>Small amounts (not exceeding 2 litres) of liquid nitrogen can be safely used in school laboratories, without risk of asphyxiation. It would be prudent to ensure good ventilation. However, if liquid nitrogen is kept in preparation rooms, stores and other confined spaces, these must be ventilated as much as possible. In the event of a spill in a confined space, the room should be evacuated. If liquid nitrogen has been kept in a confined space, when retrieving it, a second person should be present in case of asphyxia.</p>   |
| m | <b>Fire in oxygen-enriched atmospheres</b>                               | <p>The boiling point of oxygen is <math>-183^{\circ}\text{C}</math>, higher than that of nitrogen, <math>-196^{\circ}\text{C}</math>. Liquid nitrogen may condense liquid oxygen from the surrounding air. Substances will burn more fiercely and ignite. Provided that the quantities of liquid nitrogen are small (eg, 2 litres) there is not much risk of significant oxygen enrichment. Never leave a test tube, or any other container surrounded by liquid nitrogen, for long periods.</p>  |
| m | <b>Cold burns, frost bite and hypothermia from the intense cold</b>      | <p>When handling liquid nitrogen, eye protection (preferably goggles or a face shield) must be worn as well as non-absorbent, leather gloves. Shoes and gloves need to be easily removable but open-toed shoes should <b>not</b> be worn. Demonstrators need to be vigilant about the possibility of splashes of liquid nitrogen becoming entrapped in clothing, etc.</p>   |
| m | <b>Over-pressurisation from the large volume expansion of the liquid</b> | <p>2 litres of liquid nitrogen will become 1366 litres of gaseous nitrogen. In an enclosed vessel this will give rise to a huge increase in pressure. Because liquid nitrogen is cold, it will condense any moisture in the atmosphere, possibly forming an ice plug which may seal an open vessel, causing the pressure to build up. To our knowledge this has caused at least two explosions in schools/colleges. Liquid nitrogen must be transported, kept and used only in a vented Dewar flask, specially designed for cryogenic work. Do <b>not</b>, under any circumstances, use ordinary vacuum flasks. (Suitable small Dewars are available for less than £100 (2005 prices), eg, from Camlab.</p>   |
| m | <b>Transport of liquid nitrogen</b>                                      | <p>Under the <i>Transportable Pressure Vessels Regulations</i>, liquid nitrogen must only be transported in vessels which are suitable for this purpose (see above). Open vessels are <b>not</b> suitable, because of the risk of splashing and spills.</p> <p>If liquid nitrogen is transported by road, the <i>Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations</i> require that the driver shall have had special training. The BCGA Code of Practice CP30 <i>The Safe Use of Liquid Nitrogen Dewars up to 50 litres</i> (British Compressed Gases Association, 2000) states that Dewars must be transported separately from driver or passengers. Flat-back pick-ups, trailers or vehicles fitted with a separating bulkhead should be used. These two requirements mean it is unlikely that schools will be able to obtain free supplies from a</p> |

# Cleapss Laboratory Manual

**SB Merriam**



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## **Table of Contents Cleapss Laboratory Manual**

1. Understanding the eBook Cleapss Laboratory Manual
  - The Rise of Digital Reading Cleapss Laboratory Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Cleapss Laboratory Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cleapss Laboratory Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cleapss Laboratory Manual
  - Personalized Recommendations
  - Cleapss Laboratory Manual User Reviews and Ratings
  - Cleapss Laboratory Manual and Bestseller Lists
5. Accessing Cleapss Laboratory Manual Free and Paid eBooks
  - Cleapss Laboratory Manual Public Domain eBooks
  - Cleapss Laboratory Manual eBook Subscription Services
  - Cleapss Laboratory Manual Budget-Friendly Options
6. Navigating Cleapss Laboratory Manual eBook Formats

- ePub, PDF, MOBI, and More
- Cleapss Laboratory Manual Compatibility with Devices
- Cleapss Laboratory Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cleapss Laboratory Manual
  - Highlighting and Note-Taking Cleapss Laboratory Manual
  - Interactive Elements Cleapss Laboratory Manual
- 8. Staying Engaged with Cleapss Laboratory Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cleapss Laboratory Manual
- 9. Balancing eBooks and Physical Books Cleapss Laboratory Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cleapss Laboratory Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Cleapss Laboratory Manual
  - Setting Reading Goals Cleapss Laboratory Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cleapss Laboratory Manual
  - Fact-Checking eBook Content of Cleapss Laboratory Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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