

CLEAPSS advice on handling liquid nitrogen in schools

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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 | Liquid nitrogen | <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">• asphyxiation in oxygen-deficient atmospheres;• fire in oxygen-enriched atmospheres;• cold burns, frost bite & hypothermia from the intense cold;• over-pressurisation from the large volume expansion of the liquid;• manual-handling accidents if using large (25 litre) volumes. <p>There are also risks associated with the transport of liquid nitrogen.</p> |
| m | Asphyxiation in oxygen-deficient atmospheres | <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 | Fire in oxygen-enriched atmospheres | <p>The boiling point of oxygen is -183°C, higher than that of nitrogen, -196°C. 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 | Cold burns, frost bite and hypothermia from the intense cold | <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 not be worn. Demonstrators need to be vigilant about the possibility of splashes of liquid nitrogen becoming entrapped in clothing, etc.</p> |
| m | Over-pressurisation from the large volume expansion of the liquid | <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 not, under any circumstances, use ordinary vacuum flasks. (Suitable small Dewars are available for less than £100 (2005 prices), eg, from Camlab.</p> |
| m | Transport of liquid nitrogen | <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 not 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

Sandra Amos, Richard Boohan



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CLEAPSS Laboratory Handbook CLEAPSS School Science Service, Aspects of Teaching Secondary Science Sandra Amos, Richard Boohan, 2003-09-02 This book's structure reflects the different dimensions to learning science. The first section focuses on the importance of talk in the science classroom while the second explores the key role of practical work. The third section is concerned with the creative theoretical aspect of science. Section four follows this by considering the communication of ideas and how pupils learn to participate in the discourse of the scientific community. Section five emphasizes the place of science in the broader context considering its moral and ethical dimensions and its place in a cultural context. Finally, section six explores the complexity of the task faced by science teachers highlighting the knowledge and skills science teachers must acquire in order to create an environment in which students are motivated to learn science.

Advanced GNVQ Science M. W. Brimicombe, 1995 This is a student resource book covering the eight mandatory units and core skills at Advanced Level. Developed in association with the RSA Examinations Board, it provides information and techniques to support assignments, case studies to illustrate real life science and exemplar assignments. **CLEAPSS**

School Science Service Laboratory Handbook CLEAPSS School Science Service, 1989* The Nature of Science Dorothy Warren, 2001 There are many different approaches to science. Many students in school have a view of science that is far removed from the real world practice of science and they too often consider science to be a defined body of knowledge and scientists to know all the answers. Through a series of exercises, this book tries to give students an awareness of the processes of science and of the nature of science as a changing body of knowledge with uncertainties and much remaining to be discovered. It is hoped that by using it, teachers can communicate to their students some of the wonder and excitement of science and encourage the development of future generations of scientists. The Nature of Science includes a range of activities designed to look at different aspects of the nature of science and to teach investigative skills to 11-19 year old students. It contains teachers' notes, background information, photocopiable student worksheets and answers. **That's**

Chemistry! Jan Rees, 2000 That's Chemistry is a concise manual of ideas, activities and investigations about the science of materials and their properties for teachers to use with primary age children. All experiments in this book have been trialled in schools. It is designed for both specialist and non-specialist primary teachers to encourage interest and enthusiasm in a new generation of scientists. Salter's Higher Chemistry Gwen Pilling, 1999 This work is the accompanying teacher's book to the student book and gives the answers to all the questions in the student book together with details of how the student book delivers all the content statements in Higher chemistry.

The School Science Review, 2007 **Teaching Secondary Science** Keith Ross, Liz Lakin, Janet McKechnie, Jim Baker, 2010-02-25 Now fully updated in its third edition, Teaching Secondary Science is a comprehensive guide to all aspects of science teaching, providing a wealth of information and ideas about different approaches. With guidance on how children understand scientific ideas and the implications this has on

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