

Appendix 3

Safety resources

There is no specialist published guide wholly devoted to safety in practical microbiology in schools still in print; this appendix lists some relevant resources, together with the contact details of organisations which can be approached for advice.

Publications

This book is recommended as containing the most up-to-date and detailed information on the safe use of micro-organisms in schools:

Topics in Safety, ASE*, 3rd ed., 2001, ISBN 0 86357 316 9, 142 pp., £25.00 – Basic health and safety management in schools. Chapter 15 – Microbiology & biotechnology – contains detailed information, includes risks associated with each procedure; levels of work, list of suitable and unsuitable micro-organisms, steam sterilisation, sub-culturing and transfer work at level 3.

Other titles

Be Safe!, P. Borrows *et al.*, ASE*, 3rd ed. (Scottish ed. available), 2001, ISBN 0 863 57324 X, 28 pp., £6.50 (members) – Key Stages 1 & 2. General safety guidance. Microbiology section covers risks, examples of suitable material, safety code and disposal.

Microbiological Techniques CD1: An Interactive Manual, SSERC, 2006. Free to SSERC members; £10 to CLEAPSS members; £20 to non-members of SSERC/CLEAPSS.

Safeguards in the School Laboratory, ASE*, 11th ed., 2006, ISBN 0 86357 408 4, 123 pp., £18.00 – General safety guidance. Health & Safety legislation, managing safety, GLP, use of pressure vessels, section on biological hazards includes microbiology/biotechnology.

Safety in Science Education, DfEE, HMSO*, 1996, ISBN 0 112 70915 X, 174 pp., £14.95 – Comprehensive guide to safety. Includes legislation, safety management in the science department, risk assessments, emergency procedures, first aid, resources, laboratory design, GLP, use of chemicals, use of electricity. Section 17.4 on microbiology is inaccurate and has been superseded by Chapter 15 in the new edition (2001) of *Topics in Safety* (see above).

Studying Micro-organisms in Primary Schools, CLEAPSS, rev. ed., 1997, 20 pp., n.p. – Ideas for investigations. Includes suitable cultures, risk, safe growth of microbes, safe disposal.

Tools, Techniques and Assessment in Biology, John Addis *et al.*, Nelson*, 1999, ISBN 0 17 448273 6, 148 pp., £14.95 – A guide to help students develop their practical skills as well as giving advice on preparing for exams. There is an excellent chapter on microscopy and observation.

*Addresses

ASE Bookshop, College Lane, Hatfield, Herts AL10 9AA

HMSO Publications Centre, Tel. orders: 0171 873 9090

Nelson, www.nelson.co.uk

Sources of Advice

MISAC, c/o Marlborough House, Basingstoke Road, Spencers Wood, Reading RG7 1AG (Fax 0118 988 5656; Email education@sgm.ac.uk; www.microbiologyonline.org.uk/misac)

CLEAPSS, Brunel University, Uxbridge UB8 3PH (Tel. 01895 251496; www.cleapss.org.uk) – available only to members and associates of CLEAPSS

SSERC, 2 Pitreavie Court, South Pitreavie Business Park, Dunfermline KY11 8UB (Tel. 01383 626070; www.sserc.org.uk)