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New Edition of a Very Useful Reference

COSHH Essentials: Easy Steps to Control Chemicals.

Second edition, HSE Books, 2003. (HSG193). ISBN 0717627373, £30.00. Published 17.11.03. From <http://www.hsebooks.com/Books> and Search on HSG193.

Loose leaf guidance pack to help employers minimise the health risks arising from the use of hazardous substances at work and updated to reflect the new COSHH Regulations 2002. Incorporates a new section containing industry specific control guidance sheets covering topics as diverse as dust in the rubber industry to hazardous fruit in the retail sector. Each sheet contains useful checklists for employers and employees including good practice, equipment design, training, maintenance. Contains a booklet explaining the background and how to use the pack.

From <http://www.hse.gov.uk/flist/november.htm>

Note: COSHH Essentials is also available to be used on-line at www.coshh-essentials.org.uk for free.

Hazmat & Environment Notes are prepared by:

Jeff Simpson

Hazardous Materials Consultant
Editor & Publisher

I have edited and published this newsletter since 1985, initially within the Aerospace Industry, and then to all industry using chemicals since 1991.

I work as a Regulatory Affairs and Hazardous Materials Consultant and try to put my concern about chemicals into practice, and influence everyone to make better choices of, and better use of chemicals.

My approach is to provide a short, succinct note on each hazardous material issue, sufficient to allow you to make a decision of whether it is relevant to you. If you need more information contact details / website / etc are provided.

I encourage all readers to make comment on draft regulations, codes and standards.

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Hazardous Substances

• Dangerous Substances – Handle with Care (EU)

European Safety Week 2003 held in October focussed on dangerous substances (known as hazardous substances in Australia). See the website <http://www.osha.eu.int/ew2003/>.

A Report: The Practical Prevention of Risks From Dangerous Substances at Work (117 pages) can be downloaded.

The Magazine of the European Agency for Safety & Health at Work No. 6 Dangerous Substances (36 pages) can be downloaded from:

<http://agency.osha.eu.int/publications/magazine/6/en/>

• Proposed UK Exposure Limits Framework

This consultative document gives proposals for a simplified system of UK Occupational Exposure Limits (OEL) that should be much easier for small firms to understand and use. The aim is to help the wide spectrum of firms using chemicals to properly protect their workers.

The proposal in this Consultative Document is to replace the current poorly understood system with a single type of OEL, to be called a Workplace Exposure Limit (WEL). This will impose a single duty on employers – the amount of a chemical in their workplace air must not exceed the WEL.

As Australia bases its Exposure Standards on the UK system this change is important for us to be aware of. Comment closes 31 December 2003 to e-mail: tony.gissane@hse.gsi.gov.uk.

The consultation document can be obtained from: <http://www.hse.gov.uk/consult/condocs/cd189.htm>

There is also a supporting Research Report RR172 - The Role of Occupational Exposure Limits in the Health and Safety Systems of EU Member States at <http://www.hse.gov.uk/research/rrhtm/rr172.htm>.

• Estimation & Assessment of Substance Exposure

[Evaluation and further development of the EASE model 2.0](#)

Cherrie, J. W., Tickner, J. and others. UK HSE and Institute of Occ. Medicine. HSE Books, 2003. (Research Report 136). ISBN 0717627144, Published 19.8.03.

Examines the underlying structure and philosophy of the Estimation and Assessment of Substance Exposure (EASE) model version 2.0, developed by the UK Health and Safety Executive (HSE). EASE is a knowledge-based modal used by regulators for assessing new and existing substances. Aimed to provide a critical assessment of the utility of its performance to date. Information was documented by gathering surviving evidence and interviewing personnel involved in its creation and development. Twenty seven stakeholders participated in structured interviews on issues such as the limitations of the model, suggestions for improvement and accuracy and precision. They were also asked to comment on what outputs they would like to obtain from an ideal model. Outlines recommendations for the structure of a revised exposure model.

Download: www.hse.gov.uk/research/rrpdf/rr136.pdf [680kb]

• Controlling TGIC Exposure in Coating Powders

[Control of exposure to triglycidyl isocyanate \(TGIC\) in coating powders.](#) [58kb pdf]

Revised, UK HSE, 2003. (Engineering Sheet No. 15 (rev2)). Published 3.6.03.

Aimed at anyone involved with the formulation of coating powders which contain TGIC. It has been revised because TGIC, as a category 2 mutagen, and products containing it are subject to the additional control measures. Provides guidance on the actions employers now have to take to control the risk of exposure from TGIC, one of the most significant is the requirement to thoroughly clean any surfaces where accumulations could form. Employers also need to review the information and training provided to employees who may be exposed to TGIC, and prepare plans & procedures to deal with incidents and emergencies.

Download: www.hse.gov.uk/pubns/eis15.pdf

• Safety in Motor Vehicle Repair: Working with 2-Pack Isocyanate Paints.

UK HSE, 2003. (INDG388). This 3 part leaflet is aimed at persons involved in the spray, brush or roller painting of motor vehicle body panels. It explains how exposure to isocyanate in 2-pack paints could affect worker' health, and outlines some of the precautions for protecting people against the main risks, as well as legal requirements. Includes a Dos and Don'ts poster on the reverse side of the leaflet.

From <http://www.hse.gov.uk/pubns/indg388.pdf>

• Assessing & Controlling Styrene Levels – FRP

[Assessing and controlling styrene levels during contact moulding of fibre-reinforced plastic \(FRP\) products.](#)

UK HSE, 2002. (Plastics Processing Sheet No.14). 15.9.03.

Summarises the health hazards that can arise from exposure to styrene and provides practical guidance to fibre-reinforced plastic (FRP) manufacturers on how to assess and control styrene levels in the workplace and how these control measures should be monitored and maintained. It applies mainly to contact moulding processes.

Download: www.hse.gov.uk/pubns/pps14.pdf, [20 kb]

• Safe Use of Solvent Degreasing Plant.

UK HSE, 2003. (Engineering Information Sheet No. 40). Published 28.3.03. [6 page pdf]. Search on EIS40 in <http://www.hsebooks.com/Books>.

Summarises the main precautions required when carrying out solvent degreasing, using organic solvents (including trichloroethylene) as well as those introducing a 'drop-in' replacement, or converting solvent degreasing plants (degreasers) which previously used trichloroethylene. With emphasis on open-topped, manually operated degreasing tanks because these have the greatest potential for causing over-exposure.

Read in conjunction with "Maintenance and Cleaning of Solvent Degreasing Plant", HSE, 2003. (Engineering sheet no.20)(rev1). Search on EIS20REV1.

From: <http://www.hse.gov.uk/flist/march.htm>

• **Amended Chrysotile Exposure Standard**

Amended by NOHSC to 0.1 f/mL (TWA8: time weighted average, 8 hours). For details: www.nohsc.gov.au.

From Chemical Gazette, Nov 03, www.nicnas.gov.au

NICNAS (Industrial Chemicals)

• **Synthetic Polymers of Low Concern**

As part of Implementation of Low Regulatory Concern Chemical Reforms NICNAS will introduce major changes to the way in which Synthetic Polymers of Low Concern (PLC) are notified and assessed.

The changes will mean that in most cases, the PLC assessment process will become an Audited Self-Assessment by industry. The assessment timeframe of the large majority of PLC notifications will be reduced from 90 to 28 days, from the time a complete notification package is received. The changes are expected to be introduced during December 2003. In some cases, estimated to be approximately 5-10%, a full assessment will still be required, for example, where there is some concern regarding human health and/or the environment.

From Chemical Gazette, 2 Dec 2003, www.nicnas.gov.au

• **Sodium Alkylbenzene Sulfonate Draft PEC**

The Draft Priority Existing Chemical Report for SAS is available for public comment.

The draft report presents a summary and evaluation of information relevant to a full assessment of SAS covering use, exposure, toxicity, effects on human health and the environment, intrinsically and as an Anti-valve seat recession (AVSR) fuel additive. Recommendations for the safe uses of SAS are made. 110 pages.

Download: <http://www.nicnas.gov.au/news/draft-sas.htm>.

From Chemical Gazette, 2 Dec 2003, www.nicnas.gov.au

• **Proposed Amendments to National Workplace Exposure Standards**

For: 2-Butoxyethyl acetate; 1-Methoxy-2-propanol acetate; n-Butyl acrylate; 5-Methylheptan-3-one; e-Caprolactam (vapour); Sulfotep; 1,1-Dichloroethane; 1,1,1-Trichloroethane; Ethylene glycol (vapour) and Ethylene glycol (particulate); Triethylamine.

Correction of drafting errors in 4 previously declared exposure standards which relate to slight inaccuracies in the nomenclature of the chemicals.

Ethylene glycol (vapour); N,N-Dimethylethylamine; Mercury: aryl & inorganic compounds (as Hg); 2,2'-Oxybis[ethanol].

The proposed amendments and a Preliminary Regulation Impact Statement is available free of charge by downloading from the NOHSC web site at:

<http://www.nohsc.gov.au/OHSInformation/Databases/ExposureStandards/expsearch.asp>

From Chemical Gazette, 2 Dec 2003, www.nicnas.gov.au

Scheduled Poisons / Illicit Drug Code

• **Amendment to the Illicit Drug Code**

The NSW Police Commissioner is currently reissuing the Code of Practice for Supply Diversion into Illicit Drug Manufacture to include the following substances under Category 1:

- 1,4-Butanediol
- 4-Amino-Butanoic Acid
- 4-Hydroxy-Butanoic Acid Nitrile
- 4-Hydroxybutanal
- 2-Hydroxytetrahydrofuran
- 2-Pyrrolidone
- 4-Hydroxy Pentanoic Acid
- 4-Hydroxy Butanoic Acid Lactone

These substances were highlighted by the NDPSC because of their illicit use in spiking drinks. This will mean companies handling and supplying these products must comply with the requirements of the Code, including use of End User Declarations etc.

From: <http://www.pacia.org.au/Health/IllicitDrug.html>

Agricultural & Veterinary Chemicals

• **TGA Handbook of AGVet First Aid Instructions Safety Directions and Warning Statements for Agricultural and Veterinary Chemicals (FAISD)** has been updated on 31 August 2003 (141 pages, 477kb pdf).

All *substance specific* entries in this Handbook, ie. First Aid Instructions, Warning Statements and General Safety Precautions, have been combined into a single section.

A new system of statement numbers has been introduced to permit a single sequence of numbers to cover both Warning Statements and General Safety Precautions. Consequently the statement numbers and the statements themselves are **NOT** necessarily the same as those contained in the SUSDP.

A general recommendation for all agricultural and veterinary chemical product labels to carry first aid instruction 'a', irrespective of poisons scheduling considerations, has been included in this amendment. The fact that a product contains no ingredient at a concentration requiring scheduling does not necessarily mean that it presents no hazard.

From <http://www.tga.gov.au/docs/html/faisd.htm>

• **Bioaerosol Exposure from Composts**

[Occupational and environmental exposure to bioaerosols from composts and potential health effects - a critical review of published data.](#)[700kb pdf]

Swan, J.R., Kelsey, A. and others. UK HSE, The Composting Association & Health and Safety Laboratory. HSE Books, 2003. (Research Report 130). ISBN 0717627071, £20.00. Published 5.9.03.

A critical review of the published literature on airborne micro-organisms or their constituent parts (bioaerosols) associated with organic waste composting facilities, and to establish whether there is a risk to worker health from the inhalation of these bioaerosols. The review aimed to

identify the personnel at risk on compost sites, identify the circumstances which increased the risk, and indicate suitable control measures to control the risk. A further consideration was that airborne dispersal of bioaerosols from compost facilities could effect neighbouring facilities or residents, leading to health concerns, and evidence was reviewed regarding bioaerosol dissemination from sites, potential exposures and reported ill health.

From: www.hse.gov.uk/research/rrpdf/rr130.pdf

• New Ag & Vet Active Constituent, 2 Dec 03

Dimethenamid-P [Page 6 Ag&Vet 2 Dec 03 Gazette](#)
[S-2-Chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)acetamide;
CAS Number: 163515-14-8; Schedule S6]

Dr Paul Sethi, Chemistry Manager, Chemistry and Residues Program, APVMA, ph: 02-6272-3987, fax: 02-6272-3551, email: paul.sethi@apvma.gov.au

From <http://www.apvma.gov.au/gazette/gazette0312.shtml>

• APVMA Draft Part 2 (Chemistry & Manufacture)

requirements for approval of active constituents and registration of agricultural chemical products will be available mid December on the APVMA's website (http://www.apvma.gov.au/ga/subpage_ga.shtml) Comment is sort on these draft chemistry requirements from the manufacturers of active constituent, registrants of agricultural chemical products, AVCARE, and interested parties. Comments and suggestions by **31 January 2003**.

To: Dr Paul Sethi, Chemistry Manager, Chemistry and Residues Program, APVMA, ph: 02-6272-3987, fax: 02-6272-3551, email: paul.sethi@apvma.gov.au

From: www.apvma.gov.au/gazette/gazette0312p34.shtml

• Amended AgVet Label Approval Process

This paper describes the APVMA processes for label approval, adopting amendments to the Agvet Code which came into effect on 9 October 2003. The Ag Manual and the Vet Manual have both been updated to reflect these changes.

Download this from:

http://www.apvma.gov.au/registration/legislative_amend_2003_label.pdf

• Registration Review of the Fungicide, Benomyl

Benomyl is a fungicide that is widely used in the horticultural industry, but not in the home garden.

The APVMA has received advice from Office of Chemical Safety that Benomyl causes impairment of reproduction and development in laboratory animals, and that women of childbearing age should avoid contact with Benomyl.

The APVMA is confirming that there is an adequate margin of safety for workers using the chemical. Manufacture of the product will be halted until the review is completed. Additional safety information will need to be provided with existing stocks at retail outlets.

For information please contact APVMA: ph: 02-6272-3213, email: chemrev@apvma.gov.au.

From: <http://www.apvma.gov.au/media/mr0307.shtml> & Gazette APVMA 11, 4 November 2003

• Reconsideration of the Insecticide, Fipronil

Fipronil is a broad spectrum insecticide that belongs to a relatively new class of pesticides. Its mechanism of action is interference with the insect central nervous system.

Fipronil is used in veterinary chemical products to control fleas and ticks on cats and dogs and in agricultural chemical products to control a range of insect pests in agricultural crops. It is also in a number of household products e.g. cockroach baits & gels, & in ant bait stations.

The APVMA has received a number of human and animal adverse experience reports involving products containing fipronil. Reports include skin reactions in animals and humans, neurological signs and deaths in target animals (often involving concurrent infestations with paralysis ticks) and deaths following off-label use in domesticated rabbits.

The APVMA will consider fipronil & products containing fipronil in the context of both agricultural & veterinary uses.

Email submissions to chemrev@apvma.gov.au by the 31st Jan 2004. For more details Manager, Veterinary Medicines Review, APVMA ph: 02- 6272-3213

From: <http://www.apvma.gov.au/chemrev/fipronil.pdf>

• Guidelines for Veterinary Chemical Products

The APVMA is adopting further Guidelines developed by the VICH (Veterinary – International Co-operation on Harmonisation) process for safety of residues of veterinary drugs in human food. They are:

- General Approach To Testing (V73-VICH GL33)
- Carcinogenicity Studies (V70-VICH GL28)
- Repeat-Dose (90 D) Toxicity Testing (V71-VICH GL33)
- Developmental Toxicity Testing (V72-VICH GL32)

The VICH Guidelines can be accessed from <http://vich.eudra.org/html/guidelines.htm>

Dangerous Goods

• Draft Australian Dangerous Goods (ADG) Code

The Advisory Committee on the Transport of Dangerous Goods (ACTDG) is now reviewing the draft of the new ADG 7th Edition prepared by their consultant, John Borig of Noel Arnold & Associates.

The ACTDG is developing a single document integrating UN13 and Australian specific requirements. Some are:

- Follows the numbering format of the UN Model Regs.
- The existing or additional Australian requirements are incorporated at the appropriate numbering level.
- Australian requirements are to be clearly marked.
- UN definitions are used to the extent possible.

Due to the significant change in format it will also require an education package to be developed for users of the ADG Code. The public comment draft is expected to be available about May 2004 and will be finally published by start 2005.

For updates on the progress of the review go to: http://www.dotars.gov.au/transreg/str_dgoodsum.htm

• IATA Dangerous Goods Regs – 2004 Edition

Some significant changes in the new edition include:

- Section 3.6.2 Definition of Diagnostic Specimens

- Section 4.2 List of Dangerous Goods Amendments e.g. UN 1350 Sulphur – Limits for several situations apply.
- Section 7.1.5.1 The requirement for marking the net quantity on packages and overpacks has been clarified.
- Section 7.2.4.5 A “Keep away from Heat” label has been introduced for packages containing Division 4.1 Self Reactive Substances; and Organic Peroxides subject to - Special Provision A20.

Cost \$235.00 (inc. postage), to order a copy in Australia go to www.afif.asn.au. Or for US\$110 (postage extra) from IATA at www.iata.org

Information from AFIF ph: 02-9314-3055, afif@afif.asn.au

• WA Dangerous Goods Safety Bill 2002

Introduced to the WA Parliament in December 2002, the Bill passed through the House of Assembly in June 2003.

Whilst waiting for it to be finalized consent was sought to make a start on the drafting the Transport Regulations. Drafting instructions for Major Hazard Facilities and Storage and Handling are almost ready for submission, while those for explosives regulations are well advanced.

There will be lengthy stakeholder consultation by the WA Dept of Industry and Resources (DOIR) as soon as draft regulations are available. To receive copies of the draft Regulations, when they are available, please contact the WA DOIR ph: +61-8-9327-5555 or your industry association.

Details about the scope and progress of the legislation can be obtained from:

www.doir.wa.gov.au/safetyhealthandenvironment/47212464C080480F88B1225383385322.asp

• Qld Chemical Hazards & Emergency Mgmt Unit

The Queensland (CHEM Unit) is part of the Counter Disaster and Rescue Services Division of the Department of Emergency Services. ph: 07-3247-8444, email: chem@emergency.qld.gov.au.

The Unit is divided into four service areas:

[Dangerous Goods Safety Service](#);
[DGSM Legislation & Coordination Service](#);
[Major Hazards Safety Service](#); and
[Response Advice for Chemical Emergencies \(RACE\) Service](#)

Since January 2003 they have released seven Major Hazard Facility Updates: There are now 28 MHFs in Qld.

Nos. 1/ to 5/ covered: MHFs Classified; Systematic Risk Assessment; Compliance Audits; MHF Forum; Document Security; Critical Risk Reduction Measures; Emergency Plans & Procedures; Manifests; eForum; Major Accident Notification.

No.6/ covered: PACIA Safety Case Lessons from Victoria; eForum; Declassification; Compliance Audits; Safety Management Systems & Verification Audits.

No.7/ covered: Community Consultation.

Guidelines for MHFs – Safety Management Systems have been prepared by the Qld CHEM Unit to provide information and assistance to occupiers to enable them to better understand and fulfill their obligations

From: www.emergency.qld.gov.au/chem/ and www.emergency.qld.gov.au/chem/hazards/guidelines.asp

• National Marine Chemical Spill Contingency Plan

(Chemplan) was endorsed by all Commonwealth / State / N.Territory Governments and the chemical industry and released during 2003. The plan comes under the National Plan to Combat Pollution of the Sea by Oil and Other Noxious and Hazardous Substances.

The notification of maritime spills and activation of these support and response systems are co-ordinated through the AMSA 24hr/7 day a week AusSAR Maritime Duty Officer. Phone (02) 6230 6811, Fax (02) 6230 6868. Emergency Freecall 1800 641 792, E-mail: rcc@amsa.gov.au

The ChemPlan documents (85 pages overall) can be downloaded as 7 Parts and 18 Appendices from:

www.amsa.gov.au/me/natplan/ContplanChem/Chem.htm

• Managing Chemical Reactivity Hazards

USA OSHA is providing free access to the CCPS book **Essential Practices for Managing Chemical Reactivity Hazards**, published by the Center for Chemical Process Safety (CCPS) of the American Institute of Chemical Engineers. The book is useful for safety and health managers, engineers, chemists and others involved in chemical manufacturing or operations to identify, address and manage chemical reactivity hazards. Made possible by CCPS, OSHA, US EPA, The American Chemistry Council, and The Synthetic Organic Chemical Manufacturers Association. 2003, ISBN 0-8169-0896-6, 194 pages

Go to www.osha.gov/dep/reactivechemicals/index.html which takes you to the publisher Knovel, at <http://info.knovel.com/ccps/> where you must enter a once off registration. Then it is downloaded as 14 pdf files, totalling 5 Mb.

From Yahoogroups Dangerous Goods “Newsystuff” Nov 03

• Reducing Risk of Fire during FRP Manufacture

[Reducing the risk of fire or explosion during the manufacture of fibre-reinforced plastic \(FRP\) products.](#) [20kb pdf]. UK HSE, 2003. (Plastics Processing Sheet No.15). Published 15.9.03.

This information sheet covers the control of fire and explosion hazards in fibre laminating and can be used to help to carry out risk assessments and decide what control measures are needed.

Download: www.hse.gov.uk/pubns/pp15.pdf

• Impact of New Entrants into COMAH

[Safety Report Regime - Evaluating the Impact on New Entrants to COMAH](#) [540kb]

Brazier, A., Waite, P. Health and Safety Executive and Entec UK Limited, HSE Books, 2003. (Research Report 092). ISBN 0717621731, Published 14.4.03.

Concerns the 'softer' issues of COMAH such as the impact of writing a safety report and the views and perceptions of duty holders. The financial impact of COMAH on industry has been significant, and the judgement as to whether this represents value for money is finely balanced.

Download: www.hse.gov.uk/research/rrpdf/rr092.pdf

- **Emergency Planning**

[Emergency Planning](#). [50kb pdf] from UK HSE, 2003. (AFAG802). Published 1.4.03

The purpose of this leaflet is to help minimise the time taken for the emergency services to be reached, and to advise on ways to minimise the risk to operators if there is an emergency. Highlights the need to include environmental and other emergencies within the planning process and identifies controls that can be used as part of an emergency planning procedure.

Download: www.hse.gov.uk/pubns/afag802.pdf

- **UK COMAH Major Accidents Notified to the EC**

[COMAH major accidents notified to the European Commission, England, Wales and Scotland 2000-2001: factsheet](#).

By the UK HSE, the Environment Agency in England and Wales (EA) and the Scottish Environment Protection Agency (SEPA). HSE, 2003. Published 3.2.03.

Summarises details of the four major accidents in England, Wales and Scotland notified to the European Commission for the period April 2000 to March 2001. No fatal/ serious injuries occurred. One accident required 60 residents to be evacuated for 12 hours, with further evacuations taking place due to possible off-site effects.

From <http://www.hse.gov.uk/press/2003/e03011.htm>

- **Hazardous Industries Competence Assessment**

[Competence Assessment for the Hazardous Industries](#). [1.2mb pdf]

Wright, M., Turner, D. and others. UK HSE and Greenstreet Berman Ltd. HSE Books, 2003. (Research Report 086). ISBN 0717621677, Published 25.3.03.

With the implementation of the UK Control of Major Accident Hazard Regulations 1999 (COMAH), it is no longer acceptable to make untested assumptions about staff competence. The UK HSE have developed safety report assessment guidance that asks for a competence assurance system that includes the setting of appropriate competence standards, assessment and reassessment of competence, and that there be a specific link between identified safety critical tasks and a targeted comprehensive management system.

Download: www.hse.gov.uk/research/rrpdf/rr086.pdf

- **Industry Lessons: Implementing Safety Cases**

PACIA with its Victorian MHF members, has put together a Guidance Note on the Industry Lessons from developing and implementing the safety case in Victoria. This document endeavours to highlight the key lessons- the "what I wished I'd known when I started, handy hints and mistakes to be avoided"- (7 pages).

Available: <http://www.pacia.org.au/Health/health.html#MHF>

Environmental Notes on Chemicals

- **WA Waste Management Board**

The Waste Management Board has released the *Strategic Direction for Waste Management in WA* for public

consultation. To achieve the Towards Zero Waste by 2020 vision the draft strategy calls for a new approach based on:

- Avoiding the generation of waste wherever possible
- Sustainable use of resources through the production process and the delivery of services
- Efficient recovery of resources from residual waste streams
- Ongoing analysis and improvement to move closer to zero waste by 2020.

The strategy also identifies nine outcomes to achieve the "Towards Zero Waste by 2020" vision. The Board has also released a consultation document on the Waste Management and Recycling Fund with Recommendations for the Statutory Review of the Fund, including an increase in the landfill levy. Submissions are due on 15 Dec 2003

Both documents are available at www.wastewa.com.

- **WA Sustainability Strategy**

The WA Government released *Hope for the Future: The Western Australian State Sustainability Strategy* in September 2003 at the International Sustainability Conference in Freemantle.

For a copy go to:

<http://www.sustainability.dpc.wa.gov.au/docs/FinalStrategy/SSSFinal.pdf>, or contact Sustainability Policy Unit Email: sustainability@dpc.wa.gov.au, ph: +61-8-9222-9823.

Individual sections of the Strategy are shown below:

[Foreword, Executive Summary, Acknowledgements, Contents and Introduction](#)

[The conceptual basis: developing a framework for sustainability](#)

- [1. Sustainability and governance](#)
 - [2. Contributing to global sustainability](#)
 - [3. Sustainable natural resource management](#)
 - [4. Sustainability and settlements](#)
 - [5. Sustainability and community](#)
 - [6. Sustainability and business](#)
- [Implementation and Action Plan](#)

[Sustainability Framework and Sustainability Actions Poster](#)

From:

www.sustainability.dpc.wa.gov.au/docs/Final_Strategy.htm

- **NSW Dept of Environment and Conservation**

In NSW, Sept 2003, a new government department was created, the Department of Environment and Conservation, to bring together: It will be headed up by Lisa Corbyn, who was the Director-General of the EPA.

[Environment Protection Authority](#)
[National Parks and Wildlife Service](#)
[Resource NSW](#)

[Royal Botanic Gardens and Domain Trust](#)
and link with the [Sydney Catchment Authority](#)

From: <http://www.epa.nsw.gov.au/index.htm> and <http://www.epa.nsw.gov.au/home.htm>

- **Monitor: Pollution Prevention Newsletter**

The US Airforce Aerospace Engineering Directorate Pollution Prevention Branch has produced a regular

newsletter with good technical detail about many technologies they've reviewed in order to reduce pollution.

Their findings can be used by all industry to try and minimise pollution and make industry's operations more effective.

16 back editions of "The Monitor" from January 1998 to mid 2002 are available at:

www.engineering.wpaafb.af.mil/esh/news/news.htm#monitor & www.engineering.wpaafb.af.mil/esandh/envv_monitor.asp

The Monitor was published by the Aeronautical Systems Center's Directorate of Engineering, Environmental Management Division, Pollution Prevention Branch (ASC/ENVV), 1801 Tenth Street, Suite 2, Wright-Patterson Air Force Base, Ohio, 45433-7626. The Monitor Program Manager, ph: USA (937) 255-3059, or fax USA (937) 255-4155, Mr. Frank Brown, at Frank.Brown@wpaafb.af.mil.

Publications & Networking Groups

- **Good Practice and Pitfalls in Risk Assessment**

[Good practice and pitfalls in risk assessment](#). [470kb pdf], at

Gadd, S., Keeley, D. and others. UK HSE and Safety Laboratory. HSE Books, (Research Report 151). ISBN 0717627322, Published 10.9.03.

Presents the findings to identify and highlight the common pitfalls in industry risk assessment methodologies and their application, and to briefly summarise how different HSE divisions evaluate risk assessments. Sets out examples of good practice in relation to risk assessment, and contrasts these with pitfalls encountered by HSE. Illustrated by 26 case study examples.

Download: www.hse.gov.uk/research/rrpdf/rr151.pdf

- **Chemical Hazard Classification Group**

A networking group for those who have to cope with classification difficulties and the time these take to clarify. The next 2 meetings will be Wed 25th Feb, 26th May 2004.

There are now 52 persons on the ListServ at <http://groups.yahoo.com/group/Chem-Haz-Classification/>. Which is available for everyone to join.

For details on either email: Jeff.Simpson@haztech.com.au

Standards

All below are downloadable from www.standards.com.au

- **New Standards**

AS/NZS 1716: 2003: Respiratory Protective Devices, ISBN 0-7337-5557-7. Specifies requirements for respiratory protective devices (respirators) intended to provide protection against harmful atmospheres. Does **not** give guidance on the selection, use and maintenance of respirators covered in AS/NZS 1715. 118 pages, \$130.68.

AS/NZS 2243.9:2003: Safety in laboratories - Recirculating fume cabinets, ISBN: 0-7337-5541-0, 29 pages, \$51.88 for a pdf copy.

AS 4764-2003: Guidelines for validation procedures for chemical analysis of agricultural and contaminated soil. Also covers undisturbed and urban soil. ISBN: 0-7337-5542-9, 8 pages, 36.43.

ISO 16467:2003: Packaging - Transport Packages for Dangerous Goods - Test Methods for IBCs, & specifies the design type test requirements. 31 pages, \$129.22

- **New Drafts**

DR 03542 CP: Environmental management systems - Requirements with guidance for use, 8 pages. Free pdf.

DR 03543 CP: Environmental management systems - General guidelines on principles, systems and supporting techniques. Free draft pdf copy.

DR 03559-DR03569: Classification of Hazardous Areas - Parts 3.1 to 3.9: These drafts propose guidance on the classification of situations in which flammable liquids or gases are generated, processed, handled or stored and which are therefore potentially hazardous. Free draft pdf copy.

All Standards and Drafts are from www.standards.com.au

Seminars, Conferences, Courses

- **Due Diligence for Top Management – Jan 2004**

For Environmental Management Systems (EMS). Have an understanding of: how risk management can assist organisations in demonstrating due diligence; how Standards can assist in a systematic approach; liabilities under EMS laws.

Brisbane 21 Jan 04; Adelaide 27 Jan 04, \$350 half day. SIA Global, ph: 1300-727-444; website: www.sai-global.com, email: training@sai-global.com.

- **Business SA Training Courses, early 2004**

Risk Management	18 Feb & 18 May, 1 day	\$340;
Hazardous Substances	26 Feb & 4 th May, 1 day	\$340;
Environmental Management Systems	3 March, 1 day	\$325;
Hazard Management	14 April, 1 day	\$375;

From Training Services, Business SA ph: 08-8300-0103, fax: 08-8300-0001; freecall: 1800-088-105; website: www.business-sa.com; email: tsu@business.com.

- **Enviro 04 Convention, Sydney 28 Mar-1Apr 04**

Has six concurrent Conferences: Sustainable Industry; Water; Waste; Sustainable Energy; Business of the Environment; and Advances in Odour Management. Also has a major Trade Exhibition. Organised by: Australian Water Association (AWA); Waste Management Association of Australia (WMAA); Australian Business Council for Sustainable Energy (BCSE); Environment Business Australia (EBA); Clean Air Society of Australia & New Zealand (CASANZ).

Cost 4 days \$1650,; 1 day \$550. For details: website: www.enviroaust.net; Event Manager: Quitz Pty Ltd: ph: +61-2-9410-1302; fax: +61-2-9410-0036; email: quitz@bigpond.net.au

• **Safety In Action 2004, 30th Mar–1st Apr, Melb.**

There will be a one day Chemical Management stream covering Transport, Storage & Handling, Security, etc. SIA will include a large Trade Show. Organised by the Safety Institute of Australia (Vic).

Costing approx. \$350. For details contact the SIA Conference Organiser ph: 03-9654-7773, email: safety@aec.net.au, website: www.safetyinaction.net.au.

• **Hazmat 2004 Conference, 5-6th May, Melbourne**

Will cover Dangerous Goods, Hazardous Substances, Global Harmonisation, NICNAS, Prescribed Waste Disposal, Emergency Response, Security, Liability Issues, etc. With good networking opportunities with the speakers.

Cost \$770, Members of Supporting Organisations \$660, All Distance Attendees \$550. Contact Fire Protection Assoc'n of Australia (FPAA) ph: 03-9890-1544, fax: 03-9890-1577, email: amym@fpaa.com.au website: www.fpaa.com.au

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