

# Hazmat & Environment Notes - July/August 2001

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Editor & Publisher

I work as a Hazardous Materials Consultant and have edited and published this newsletter since 1985.

Each year our community expects more controls to be in place to ensure our safety and our children's future. There is a significant move to have a common world system of controls. As a result there is a moving target of regulatory requirements to be met.

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. Contact details are provided so that you may then obtain the detailed information. I also encourage you to make input into the system of regulations and standards.

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## Hazardous Substances

. **USA National Report on Human Exposure to Environmental Chemicals, March 2001:** A new report released by the USA Center for Disease Control (CDC). It is based on scientific advances in biomonitoring that allow CDC to measure chemicals in blood and urine samples, so that the new report provides data on actual levels of chemicals in humans.

The report provides results from a 1999 survey (from only 12 locations) of exposure to 27 environmental chemicals including: 13 toxic metals; tobacco smoke cotinine level; 6 organophosphate pesticide metabolites; and 7 phthalate metabolites. The report identified that Diethyl Phthalate and Dibutyl Phthalate were found at much higher levels than 2 other phthalates produced in larger quantities, which will require additional studies to explain.

CDC plans to expand the report over the next few years to cover about 100 chemicals. Future reports will also include studies of people subject to localised or point-source exposures.

*For details and the report see the CDC website: [www.cdc.gov/nceh/dls/report](http://www.cdc.gov/nceh/dls/report). A summary report, 6 pages with graphics is available (2.9 Mb pdf file), or a full report, 72 pages with no graphics (0.24 Mb pdf file).*

*From AIHA Synergist May 2001, [www.thesynergist.org](http://www.thesynergist.org) & the CDC website.*

. **Chloropropanols in Some Soy Sauce - ANZFA Warning:** In late June 2001 the UK Food Standard Agency disclosed that some soy sauces made using hydrochloric acid hydrolysis contain potential cancer-causing chemicals called "chloropropanols" which have exceeded the UK 0.02 mg/kg standard (now adopted in Australia). Soys using only traditional (natural) fermentation did not give rise to chloropropanols and Aust & NZ Food Authority (ANZFA) regards these as safe. Soy products explicitly identified in the ANZFA website media release are: Golden Mountain (Thailand); Pearl River Bridge (China); Lee Kum Kee (Hong Kong & China) and Wanjasham (Taiwan).

*To obtain information go to the ANZFA website: [www.anzfa.gov.au](http://www.anzfa.gov.au) and select "Media Releases & Publications" then select "media releases 2001" and go down to "Warning on Consumption of Soy Sauce 22/6/2001". In the article there is a pdf format report "Survey of 3-MPCD in Foods" and a link to the UK Food Authority website: [www.foodstandards.gov.uk/news/soysauce.htm](http://www.foodstandards.gov.uk/news/soysauce.htm) where labels of the identified products can be viewed.*

. **Outcomes of the Intergovernmental Forum on Chemical Safety (IFCS) Oct 2000 Meeting:** Released the Bahia Declaration on Chemical Safety, which includes a very interesting timeline for implementation to 2006 for each

aspect (e.g. an additional 1000 chemical hazard assessments completed and available by 2004).

The Meeting agenda topics included:

- Prevention of illegal international traffic in toxic and dangerous products;
- Barriers to information exchange for the sound management of chemicals;
- Information exchange for design chemical production facilities decision-making;
- Pollutant Release & Transfer Registers / Emission Registries;
- Globally Harmonised System for the Classification and Labelling of Chemicals (hoped to be adopted by 2003).

*To obtain further information go to their website: [www.who.int/ifcs/news.htm](http://www.who.int/ifcs/news.htm) and select "Forum III - Overview of Outcomes" and "The Bahia Declaration ...".*

. **First Aid Instruction, Safety Directions & Warning Statements for Ag & Vet Chemicals Handbook, 3rd Ed, July 2001:** published by the Dept. of Health and Aged Care, has been modified for a significant number of poisons.

The major amendment is to delete the requirement to *induce vomiting*. The other major requirement is the deletion of the recommendation to *administer milk or raw egg*. The key issue these changes address is the aspiration hazard which may occur when vomiting is induced.

The NRA Ag&Vet Chemical Gazette August 2001, has advised that all labels are to be amended as soon as possible and at the latest by 31-8-2003.

Similarly, the Scheduled Poisons "SUSDP" Standard is will also have the first aid instructions amended in Appendix E. Statements b, h, r & v are to be phased out (see the 1st Amendment of SUSDP16 due by the end of August 2001). This is a complete reorganisation of Appendix E. Also very few poisons will have the "give activated charcoal" phrase.

All companies supplying chemical products will need to review the first aid instructions in their MSDS. This change could have major liability ramifications where the MSDS advises vomiting but then the medical system later advises that vomiting is no longer to be considered as "first aid".

*To obtain a copy of the FAISD Handbook, website: [www.dhac.gov.au/tga](http://www.dhac.gov.au/tga) or ph: 02-6270-4300. For more details contact Therapeutic Goods Administration ph: 02-6270-4348; the National Registration Authority ph: 02-6270-6384; or the National Poisons Scheduling Committee ph: 02-6270-4400 [ndpsc@health.gov.au](mailto:ndpsc@health.gov.au).*

. **Changes in EU Classification & MSDS Content Requirements:** The new EEC Dangerous Substances Directive specifies the 28th Adaptation of Technical Progress (ATP) (equivalent to the Australian Designated List). This includes approximately 500 substance classifications / reclassifications; it revises the corrosivity criteria; has a new phrase for Category 3 carcinogens "limited evidence of a

carcinogenic effect" instead of, as at present, "Possible risk of irreversible effects"; it has seven new test methods for environmental effects; and revision of two test methods for subchronic oral toxicity and deletion of the method for acute oral toxicity.

The new EEC Preparations Directive introduces criteria for classifying preparations dangerous to the environment and extending the scope of the Directive to certain classes of chemicals currently excluded, such as pesticides. It will also require (material) safety data sheets to be provided on request for preparations containing concentrations at or above 1% of substances hazardous to health or the environment, or assigned a Community Exposure Limit.

*From UK HSE Newsletter, June 2001*

### Editors Comment:

The EU suppliers have 3 years to implement these changes in their MSDS and Labels. In Australia it is important to realise our obligations to work to the latest information in order to meet our obligations to provide accurate information. In particular, it is time the Australian Designated List was kept aligned with the latest EU Adaptation of Technical Progress.

*The 26th ATP is available to download free as CSE-Lite from the UK National Chemical Emergency Centre website: [www.the-ncec.com/download/index.html](http://www.the-ncec.com/download/index.html). I expect the 28th ATP will be available to download from here by early 2002.*

**Updated Publications for the NZ Hazardous Substances & New Organisms Act:** which commenced on the 2nd July 2001. The publications listed below have been modified since 17 May 2001, and are available as either pdf or word format files from the ERMA website: [www.ermanz.govt.nz/Publications](http://www.ermanz.govt.nz/Publications) and select "Recent".

**ER-PE-13--1 7/01 - Perspective** is ERMA NZ quarterly newsletter (8 pages);

**ER-UG-02-1 7/01 - Making an Application for a Hazardous Substance Approval** (117 pages);

**ER-UG-04-1 6/01 Summary User Guide to HSNO Thresholds and Classifications** (58 pages);

**ER-FE-03-1 6/01 - Pricing Schedule** (6 pages);

**ER-QG-17-1 7/01 - Making Applications** (6 pages);

**ER-AF-HS1-1 - Import or Manufacture any Hazardous Substance for Release under S28 (HS1)** (14 pages);

**ER-AF-HS2-2 - Import or Manufacture any Haz. Subs. for Release by Rapid Assessment, S28a (HS2-2)** (14 pages);

**ER-AF-HS2-1 - Import or Manufacture any Haz. Subs. for Release by Rapid Assessment, S28a (HS2-1)** (14 pages);

**ER-AF-HS3-1 - Import or Manufacture any Hazardous Substance in Containment under S31 (HS3)** (15 pages);

**ER-AF-HS4-1 - Import, Release from Containment, or Use, any Haz. Subs. in an Emergency (HS4)** (13 pages);

**ER-AF-HS5-1 - Tranship any Hazardous Substance or New Organism through NZ under S51 (HS5)** (6 pages);

**USA National Toxicology Program - 16 Substances Proposed for Listing in the Report on Carcinogens, 11th Edition:** which the USA NTP may consider for review in 2002. The USA NTP asks for relevant information concerning their carcinogenesis, production data, use, exposure *until 24th Sept 2001*.

Five entries caught my attention - Diethanolamine (DEA) (CAS111-42-2); Occupational Exposure to Lead or Lead Compounds; Naphthalene (CAS 91-20-3) and two chemicals formed in food during heating or cooking & found in cooked meat and fish (CAS 77094-11-2 & CAS 105650-23-5). *For details see the USA NTP website: <http://ntp-server.niehs.nlm.gov/> and look under "what's new".*

**Hazardous Substances - SBS TV Insight Program:** The chemicals/issues discussed included: glutaraldehyde; conditions in an unnamed Melbourne factory; 2-butoxyethanol; crystalline silica; and the difficulties at the National Occupational Health & Safety Commission.

*A transcript can be obtained from the SBS website: [www.sbs.com.au/insight/](http://www.sbs.com.au/insight/) and select "archive" then "2 Aug 2001 Hazardous Chemicals".*

**NSW Occupational Health & Safety Regulations 2001:** is now expected to come into effect in September or October 2001. One of the reasons for the delay was the need to move the performance based risk assessment into a Code of Practice rather than being in the Regulation. The Regulation will consolidate 36 workplace health and safety regulations, the Construction Safety Act 1912 and the Factories, Shops & Industries Act 1962 into one regulation. The draft regulation is still available from the NSW Workcover website: [www.workcover.nsw.gov.au](http://www.workcover.nsw.gov.au) and select "For Public Comment"

**In Vitro Dermal Absorption of Liquid Solvents:** This UK HSE measured the absorption of several widely used solvents (neat and in aqueous solutions) through dermatomed human skin. (Contract Research Report 350/2001, ISBN 0 7176 2048 4), free from their website: [www.hse.gov.au/research/frameset/crr/index.htm](http://www.hse.gov.au/research/frameset/crr/index.htm).

**Safe Use of Glass Wool & Rock Wool Insulation Products - 2 Booklets (Code [56 pages] & Field [24 pages] Handbooks), also Asbestos Removal from Buildings, ... & Workplaces - Specification** (also called the VARICC Code, [32 pages]): A couple of very useful booklets handed out during the Victorian OH&S Week in June. *These booklets can be obtained from the CFMEU Union, Pat Preston (Manager, Safety Unit) ph: 03-9348-1794, email: [patp@vic.cfmeu.asn.au](mailto:patp@vic.cfmeu.asn.au). For a list of Victorian Trades Hall Council Recognised Asbestos Removalists, ph: 03-9662-3511.*

## NICNAS (Industrial Chemicals)

. **Safety Information Sheets Based on Priority Existing Chemical Assessment Reports:** are available for -

acrylonitrile;	2-butoxy ethanol;
chrysotile asbestos;	1,4-dioxane;
glutaraldehyde;	glycolic acid;
HCFC-123;	savinase;
sodium ethyl xanthate;	trichloroethylene;
N-vinyl-2-pyrrolidone.	

These fact sheets were developed with a plain language editor so as to be clear and concise for use on workplace bulletin boards. *Editors Comment:* The format can be used as a model for other chemicals you want on a bulletin board.

*From the NICNAS Matters Newsletter, Feb 2001. The sheets can be downloaded from: [www.nicnas.gov.au/publications/#infosheets](http://www.nicnas.gov.au/publications/#infosheets).*

## Agricultural & Veterinary Chemicals

. **NRA Review Findings for Aldicarb:** Aldicarb is a carbamate (C7-H14-N2-O2-S, CAS No. 116-06-3) insecticide/nematicide (it interferes with the nervous system enzyme acetylcholinesterase) used as granules in Australian agriculture for control of insect pests in cotton, citrus and sugar-cane, with a withholding period of 6 months. Aldicarb is highly toxic to humans and animals by all routes.

The NRA has found:

- aldicarb use is not expected to have any public health implications;
- workers are not at risk from exposure if good agricultural practice (GAP) and label instructions are adhered to; and
- risks of water contamination are minimal under Australian use conditions.

The NRA has decided to affirm approvals of aldicarb active constituents and registration of products; Maximum Residue Limits for which no registered use patterns exist will be deleted; new information to further protect workers and the environment is to be added to labels; and quantities used in citrus will be monitored over the next 3 years as citrus grown on sandy soils is the current use most likely to cause water contamination.

*The Review Summary and the Final Technical Report can be downloaded from the NRA website: [www.nra.gov.au/chemrev/chemrev.shtml](http://www.nra.gov.au/chemrev/chemrev.shtml). Contact the NRA at ph: 02-6272-3213, fax: 02-6272-3551, email: <[spike@nra.gov.au](mailto:spike@nra.gov.au)>.*

. **Pindone NRA Draft Review:** Public comment is now being sought. Pindone is a first generation anticoagulant poison ( CAS No. ) used to control rabbits in urban and semi-

rural areas where the alternative rabbit poison, sodium fluoroacetate (1080) cannot be used. There have been concerns of possible poisoning of native fauna.

The main points of the draft review are:

- special knowledge, skill or qualification is required in the preparation of poison baits for rabbits using the concentrate,
- various native birds and mammals are also highly susceptible to pindone,
- an assessment of likely non-target animal exposure must precede the baiting operation,
- where there is assessed to be a significant risk measures to minimise this risk must be under taken

In the draft review, the NRA has formed the view that:

- the use of pindone should be continued under stricter controls,
- access to concentrate products should be restricted to authorised persons, but ready-to-use baits be available as an open seller, and
- labels should be strengthened to include environmental protection and warning statements and restraints on use.

*The Draft Review can be downloaded from the NRA website: [www.nra.gov.au/](http://www.nra.gov.au/) or from [www.nra.gov.au/chemrev/chemrev.shtml](http://www.nra.gov.au/chemrev/chemrev.shtml). Contact the NRA at ph: 02-6272-3213, fax: 02-6272-3551, email: <[chemrev@nra.gov.au](mailto:chemrev@nra.gov.au)>.*

. **Environmental Impact Assessment for Veterinary Medicinal Products (VMPs) - Phase 1:** This is the NRA Evaluation Guideline No. V57 which is an adopted VICH Guideline GL 6 from the (Veterinary) International Co-operation on Harmonisation of Technical Requirements for Registration of Veterinary Medicinal Products.

It is to be used in conjunction with Part 7 of the *Vet Requirement Series*. This new Guideline No. V57 further assists applicants to determine whether a limited (Phase 1) or comprehensive (Phase 2) environmental impact assessment is required.

*For details or to obtain a copy contact the NRA Evaluation Section ph: 02-6272-3744; fax: 02-6272-5249; website: [www.nra.gov.au](http://www.nra.gov.au) go to "publications" and then to "guidelines". Also available at "[www.eudra.org/html/guidelines.html](http://www.eudra.org/html/guidelines.html)".*

## Scheduled Poisons

. **SUSDP Selected Amendments from 1st June 2001:**

A new interpretation (definition) has been included:

- "Essential Oils" for those essential oils that are included in Schedule 6 because of their natural camphor component.
- *Schedule 5 New Entries:* Bergamot Oil, Lemon Oil, Lime Oil, Orange Oil (bitter)
- *Schedule 5 & 6 Amendments:* An extra exception has been added to Quaternary Ammonium Compounds - Dialkoyl quaternary ammonium compounds where the alkoyl groups are derived from tallow or hydrogenated tallow or similar chain length (C16/C18) sources.

## Dangerous Goods

. **Esso, Longford Gas Plant - Fine Imposed:** On the 30th July 2001, the Victorian Supreme Court imposed a record total fine of \$2 million (plus costs) on Esso Australia Pty Ltd for the explosion and fire that killed two workers at the Gas Plant on the 25th September 1998. Esso had been convicted by a jury on 11 breaches of the Occupational Health & Safety Act. The judge found the responsibility for the tragedy rested solely with Esso Australia Pty Ltd.

*For details see the Victorian Government website: [www.workcover.vic.giv.au](http://www.workcover.vic.giv.au).*

. **Performance Indicators for the Assessment of Emergency Preparedness in Major Accident Hazards:**

This UK HSE research involved visiting 11 major accident sites in the UK and data was collected, observed, reviewed and assessed. (Contract Research Report 345/2001, ISBN 0 7176 2038 7), free from their website: [www.hse.gov.au/research/frameset/crr/index.htm](http://www.hse.gov.au/research/frameset/crr/index.htm) or £20.00.

## Environment Notes on Chemicals

. **Sources of By-product Persistent Organic Pollutants (POPs) and their Elimination:** A 26 page report prepared by Greenpeace International Toxics Campaign, May 2001. It gives a good summary of the environmental issues surrounding organochlorine products (including PVC) and production of dioxins and other persistent chemicals, how they may be minimised and where feasible, eliminated. A ban on open burning of wastes containing organochlorines would remove a key source of dioxin formation, but it is recognised that this is not easily achieved. *Download from [www.greenpeace.org/~toxics](http://www.greenpeace.org/~toxics) and select "reports" then go to "Zero Toxics: Sources ..."*

. **List of Chemicals and Groups Estimated to have a High Potential for PCB Generation:** can be found in the NICNAS Chemical Gazette July 2001, in the section on "Rotterdam Convention on Prior Informed Consent. PCBs and PCTs (polychlorinated biphenyls and polychlorinated terphenyls) can be generated in small quantities when other chemicals are manufactured, which may occur in part per million levels.

For example some non halogenated chemicals that may have trace PCBs and PCTs include: allyl alcohol, allylamines, aminoethylethanolamine, benzophenone, benzoyl peroxide, dimethoxybenzophenone, diphenyl oxide, ethylene diamine, glycerol, linear alkyl benzenes, o-phenylphenol, propylene oxide, tetramethylethylenediamine. There is also a large range of chlorinated chemicals with this issue.

This information is needed to aid the voluntary implementation of Prior Informed Consent in Australia. *To provide information contact NICNAS - Existing Chemicals, Rosemary Sager, ph: 02-9577-9476, fax: 02-995776-9465, email: [sagerr@nicnas.gov.au](mailto:sagerr@nicnas.gov.au).*

*From the Chemical Gazette July 2000, available at [www.nicnas.org.au](http://www.nicnas.org.au).*

. **NEPM for Diesel Vehicle Emissions:** was released at the end of June 2001. The purpose of this measure is to provide a framework for the management of emissions from the in-service diesel fleet. It is designed to facilitate compliance with standards developed in conjunction with the National Road Transport Commission. "Diesel fleets are responsible for up to 80% of particle emissions and 40% of pollution-forming nitrogen dioxide, despite making up less than 10% of all vehicles." (*quote from Environment Business July 2001*).

The measure provides guidance for developing: inspection and maintenance programs; fleet maintenance programs; smoky vehicle programs; retrofit programs (e.g. fitting catalysis to diesel engines); and engine rebuild programs.

*From NEPC website: [www.nepc.gov.au](http://www.nepc.gov.au) under "Diesel Vehicle Emissions". Contact NEPC ph: 61-8-8419-1200, email: [exec@nepc.gov.au](mailto:exec@nepc.gov.au).*

. **Proposed NEPM on Air Toxics:** A staged approach to the development of an Ambient Air Toxics NEPM was resolved at the 20th meeting in June 2001 of the National Environment Protection Council (NEPC). This would allow for the consideration of pollutant for which data currently exists, whilst also allowing a process for collecting new data for additional pollutants, thus facilitating the timely development of an effective NEPM. 28 pollutants were considered against 5 criterion.

The Air Toxics Working Group identified a list of five pollutants which are recommended for consideration: benzene, formaldehyde, polycyclic aromatic hydrocarbons, toluene and xylene.

Future stages may consider a further 12 pollutants when sufficient monitoring data becomes available: 1,3-butadiene, acetaldehyde, arsenic and compounds, cadmium and compounds, methyl ethyl ketone, methyl isobutyl ketone, nickel and compounds, styrene, tetrachloroethylene, trichloroethylene, polychlorinated biphenyls (PCBs), and polychlorinated dioxins and furans.

*From NEPC website: [www.nepc.gov.au](http://www.nepc.gov.au) under "News" July 2001 then on "Air Toxics Bulletin" under "Action by NEPC". Contact NEPC ph: 61-8-8419-1200, email: [exec@nepc.gov.au](mailto:exec@nepc.gov.au).*

. **Victorian Hazardous Waste Siting Project:** Community information sessions are taking place during August to discuss the issues around the Victorian Government's election commitment to phase out all landfilling of hazardous wastes, and to consult on possible sites and requirements for new hazardous waste facilities. The first step is soil recycling (which is 35-40% of the hazardous waste stream). There will be two methods of classifying hazardous waste: the degree of hazard and the potential to be managed in an environmentally desirable way.

This is a significant change in Victoria and is expected to be the driving force behind the development of more and better reuse and recycling facilities (similar to what happened when prohibition of landfilling of liquid waste occurred). Expressions of interest will be sort in September for facilities and a short list of potential sites developed.

Information is available from the Victorian Office of Major Projects, website: [www.omp.vic.gov.au/hazardouswaste](http://www.omp.vic.gov.au/hazardouswaste); email: [hazardous.waste@dsrd.vic.gov.au](mailto:hazardous.waste@dsrd.vic.gov.au); or phone the Victorian Business Line: 132-215.

. **WA Environmental Protection (Controlled Waste) Regulations 2001:** commenced in March and controls the licencing, handling, transport and disposal of designated wastes. The criteria for these controlled wastes are based on the criteria in the National Environment Protection Measure (NEPM) for the Movement of Controlled Waste between States and Territories. The **WA Environmental Protection (Liquid Waste) Amendment Regulations 2001:** also came into effect in June and cover the on-site storage & handling of liquid wastes. For more information go to: [www.environ.wa.gov.au/regulations](http://www.environ.wa.gov.au/regulations).

From *Environment Business*, June 2001, [www.halledit.com.au](http://www.halledit.com.au)

## Publications

. **ACGIH Industrial Ventilation: A Manual of Recommended Practice, 24th Edition, 2001:** ISBN 1-882417-42-9 Publication #2093, cost US\$90. The manual provides research data and information on the design, maintenance and evaluation of industrial exhaust ventilation systems. Basic ventilation principles and sample calculations are presented in a clear and simplified manner. A widely used reference for designers and in industrial hygiene courses. There is also a 23rd Edition, 1998, Metric Version ISBN 1-882417-26-7, 512 pages, cost US\$69. Available from ACGIH website: [www.acgih.org/store/](http://www.acgih.org/store/), also available in Australia through the various outlets such as DA Information website: [www.dadirect.com.au](http://www.dadirect.com.au)

### UK HSE Publications

Available from HSE Books, PO Box 1999, Sudbury, Suffolk, CO10 6FS, ph: 01787-881165 or fax: 01787-313995.

Also from John Smith & Son Bookshops, Scotland ph: 44-141-221-7472, fax: 44-141-248-4412, website: [www.johnsmith.co.uk](http://www.johnsmith.co.uk). Note: The UK HSE Books have an international surcharge, whilst John Smith doesn't.

Also available in Australia through DA Information ph: 03-9210-7777, fax: 03-92107788, email: [service@dadirect.com.au](mailto:service@dadirect.com.au), website: [www.dadirect.com.au](http://www.dadirect.com.au).

The recent lists of UK HSC/HSE publications can be found at the UK HSE website: [www.hse.gov.uk/flist/flist.htm](http://www.hse.gov.uk/flist/flist.htm).

- **Working Together On Firework Displays** where the fireworks are to be fired by a competent display operator, (HSG123 ISBN 0 7176 0835), £8.95.

- **Asbestos Essentials Task Manual (Guidance Booklet):** has easy to follow guide sheets aimed at all workers who come into contact with asbestos (including builders, plumbers, carpenters, etc). (HSG210, ISBN 0 7176 1887 0), £8.50.

. **ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices, 7th Edition (available Sept 2001):** Provides the basic rationale for the development of TLVs for chemical substances and physical agents and of BEIs of selected chemicals. Now includes a summary of each chemical substance TLV. US\$750 available from ACGIH website: [www.acgih.org/store/](http://www.acgih.org/store/), also available in Australia through the AIOH (Aust. Institute of Occupational Health), [www.aioh.org.au](http://www.aioh.org.au), email: [aiohcc@ozemail.com.au](mailto:aiohcc@ozemail.com.au), ph: 61-3-9335-2577.

. **Hazardous Materials: Managing the Incident - Interactive CD-ROM (Item 36013):** can be used by the instructor to support a classroom presentation or by the student for self guided study. Students can pick up containers and look inside, move and examine different types of protective clothing, and walk through virtual reality HazMat scenes. Designed to support the text book of the same name.

Runs on Windows 3.1/95, MacIntosh with System 7. Cost US\$30 (reduced from US\$200), available through the Fire Protection Association of Australia, ph: 03-9890-1544, email: [fpaa@fpaa.com.au](mailto:fpaa@fpaa.com.au), website: [www.fpaa.com.au](http://www.fpaa.com.au).

## Australian Standards

. **HB 211 - 2001 Occupational Health & Safety Management Systems - A Guide to AS4801 for Small Business:** Has examples and worksheets. 73 pages cost \$39.60.

Available from Standards Australia, ph: 1300-654-646, fax: 1300-654-949, email: [sales@standards.com.au](mailto:sales@standards.com.au). Drafts are downloadable from [www.standards.com.au](http://www.standards.com.au) and select "Download a Draft". Most drafts are free when downloaded.

## Seminars, Conferences, Courses

. **New Zealand Hazardous Substances Regulations (NZ HSNO Act) Seminar, 20th Aug 2001, Sydney:** 9.00am-4.30pm. The new hazardous substances regulations commenced on the 2nd July 2001.

Presenters are Dr Bas Walker CEO Environmental Risk Management Authority NZ and Dr Donald Hannah, Manager Science & Analysis ERMA NZ. Cost \$150, for details see their website: [www.acsma.asn.au](http://www.acsma.asn.au); or contact Nikki Bailey ACSMA Sydney ph: 61-2-9281-2322, email: <nbailey@acsma.asn.au>

. **Chemical Safety Training - Holmesglen, Melbourne: Dangerous Goods (Storage & Handling) - 31 Aug, \$185; Dangerous Goods Transport Code - 29 October, \$185; Hazardous Substances - 16 November, \$185.**

The above are also offered as onsite workshops.

**Workplace Chemical Handling Course Level 1 and Level 2** - are offered only as onsite workshops.

For details contact Holmesglen Safety ph: 03-9564-6287; email: [safety@holmesglen.vic.edu.au](mailto:safety@holmesglen.vic.edu.au).

. **Waste Minimisation in the Mineral Processing Industry, 6th Sept, Perth:** A joint IChemE/IEAust Branch activity. For details contact Ming Ang ph: 08-9266-7894; fax: 08-9266-3554.

. **National Environment Conference, 7-9th Sept 2001, Melbourne:** For environmental activists to discuss "Achieving Sustainability in a Globalised World - What are the Roles of Environmentalists?". Costs - \$50 student, unwaged, part waged; \$110 community sector waged; \$220 Government / Corporate Sector. For details see website: [www.enviroconf.com.au](http://www.enviroconf.com.au).

. **Business SA Workshops, Adelaide:**  
**Environmental Auditing, 10th Sept & 12th Dec, \$325;**  
**Fire Safety Management, 11&12 Sept, \$575;**  
**Principles of Cleaner Production, 13th Sept, \$325;**  
**Confined Space Entry, 20&21 Sept, 3rd Oct, \$250, \$125;**  
**Dangerous Substances in the Workplace, 24 Sept, \$355;**  
**Hazardous Substances, 30th Oct, \$325;**  
**Environmental Management Systems, 5th Dec, \$325.**  
For details ph: 08-8300-0103; fax: 08-8300-0001; email: [tsu@business-sa.com](mailto:tsu@business-sa.com); website: [www.business-sa.com](http://www.business-sa.com).

. **Hazardous Substances Legislation Seminars, 6th & 19th Sept 2001, Melbourne:** To help industry develop appropriate systems to meet the legislation. Held at Altona (6th) & then at Wantirna (19th), cost \$205. For details contact Aust. Envir. Bus. Network ph: 03-9397-2511; email: [aebn@bigpond.com](mailto:aebn@bigpond.com); website: [www.aebn.com.au/main.html](http://www.aebn.com.au/main.html).

. **Dangerous Goods & Hazardous Substances Workshops, October 2001, Standards Australia/NCSA in 6 Locations:** One day workshops covering application of the legislation; relationship & application of Australian Standards; chemical management through software. 4 Oct - Newcastle; 9 Oct - Sydney; 15 Oct - Brisbane; 16 Oct - Melbourne; 17 Oct - Melbourne; 18 Oct - Adelaide; 19 Oct - Perth.

Cost \$465 for information contact Standards Australia - Professional Services ph: 1300-656-529; email: [events@standards.com.au](mailto:events@standards.com.au); website: [www.standards.com.au](http://www.standards.com.au) and select "seminars info".

. **Hazardous Areas Workshop, October 2001, Standards Australia:** One day workshop introduction on how to apply the relevant Australian Standards to select, install, inspect and maintain hazardous area located electrical installations. Presenter - Colin Baker, Explosion Protection Technology, a member of a sub-committee on Intrinsic Safety.

Cost \$385 for information contact Standards Australia - Professional Services ph: 1300-656-529; email: [events@standards.com.au](mailto:events@standards.com.au); website: [www.standards.com.au](http://www.standards.com.au) and select "seminars info".

. **Green Chemistry - Research & Development Collaborations, Melbourne, DELAYED until late Oct 2001:** Half day symposium organised to promote collaborative partnerships. Speakers from university, CSIRO and industry. For details contact Gerard Roe, email: <Gerard.Roe@riotinto.com>.

. **Dangerous Goods (Storage & Handling) - How to Comply Seminar, Thurs 22nd Nov 2001, North Melbourne, 5-9pm (to be confirmed):** The RACI Env&Haz.Mat'l's Group and the Risk Engineering Society are expecting to run this seminar with speakers from industry and government. Cost \$66, for details or to book contact the RACI Vic Branch ph: 03-9328-2808, fax: 03-9326-5880, email: [racivic@mira.net](mailto:racivic@mira.net).

. **World Occupational Exposure Values Symposium, now March 2002, Brussels, Belgium:** International Co-operation on scientific and technical issues. Designed to address common themes relating to exposure value development; establish awareness of work being carried forward; and to establish ongoing networks.

Organised by the IOHA and the ACGIH. For details contact ACGIH email: [meetings@acgih.org](mailto:meetings@acgih.org); ph: 0011-1-513-742-2020; fax: 0011-1-513-742-3355. Symposium website: [www.woev.org](http://www.woev.org). Cost to register US\$1250 approx. (accommodation extra).

See: [www.europe.osha.eu.int/news/events/eu.php3](http://www.europe.osha.eu.int/news/events/eu.php3)

. **Hazardous Substances, 31 October, Melbourne:** A VECCI course, which identifies how these Regulations impact on business, and to advise on risk assessment techniques and control of hazardous substances exposure. Cost \$374, for info contact VECCI Training Centre ph: 03-9251-4300; email: training@vecci.org.au; website: www.vecci.org.au.

. **SAFETY+PLUS Courses, Sydney:**  
**Hazardous Substances, 15th & 16th Nov 2001; Hazard Identification & Risk Management, 21 Nov 2001.**  
 One day course cost \$220, for details ph: 02-9816-1164; email: safetyplus@optushome.com.au.

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