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Hazmat & Environment Notes are prepared by:

Jeff Simpson

Hazardous Materials Consultant
Editor & Publisher

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.

Screen **ISSN: 1441-5534**

Hazardous Substances

• Australian GHS Hazardous Chemical Info List

June 2014: Safe Work Australia has published the HCIL list of chemicals classified in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS). This list contains the vast majority of chemicals currently in Australian HSIS.

The chemicals in this HCIL list have been classified by an authoritative source, such as the European Commission, the National Industrial Chemicals Notification and Assessment Scheme, and recommended classifications from the Australian Pesticides and Veterinary Medicines Authority (APVMA) program for Agricultural and Veterinary Chemicals.

The classifications in this list may include hazard properties which are not recognised by the model Work Health and Safety regulations, such as environmental hazard properties.

Note: This document is a work in progress; Safe Work Australia does not make any guarantee as to the accuracy of the information contained within this document or accept responsibility for any loss resulting from its use. Under the Model Work Health and Safety Regulations 2011 it is the responsibility of the Australian manufacturer or importer to correctly classify their product. The hazard information presented in this document is advisory. Where physicochemical hazards are not listed refer to a reputable source such as the Australian Dangerous Goods Code for further information.

Please send any feedback or report any bugs to: feedback.hsis@swa.gov.au

[GHS Hazardous Chemical Information List \(Excel Spreadsheet\)](http://hsis.safeworkaustralia.gov.au/) at <http://hsis.safeworkaustralia.gov.au/>

This list does not include Exposure Standard information.

Editor: Nor does it include Precautionary Statements and Cut-off concentrations to lower Hazard Statements.

Editor: The Excel Spreadsheet allows you to easily find the chemicals classified by the Source Authority, e.g. The 122 chemicals classified by NICNAS and the 8 by the APVMA.

From: www.safeworkaustralia.gov.au/sites/swa/whs-information/hazardous-chemicals/ghs/pages/ghs

• USA CSB Report: Combustible Dust Explosion

The USA Chemical Safety Board released its final report, safety recommendations [and accompanying safety video](#) into a fatal combustible dust explosion at the AL Solutions metal recycling facility in New Cumberland, West Virginia. The report reiterates a recommendation that USA OSHA promulgate a general industry Combustible Dust Standard, something the Agency has been calling for since its definitive 2006 study on these preventable accidents.

CSB Chairperson Moure-Eraso says in the video, “Had a National Standard for Combustible Dust been in place in 2006 – and if industry had followed the requirements – many of the severe dust incidents that followed, including AL Solutions, may have been prevented. The time is now for OSHA to take action to prevent these tragic accidents.”

Video: www.csb.gov/videos/combustible-dust-solutions-delayed/

From: www.csb.gov/final-report-on-al-solutions-metal-dust-explosion-and-fire-that-killed-three-in-west-virginia-leads-csb-to-reemphasize-call-for-osha-combustible-dust-standard/

• Ethanol Fireplaces: Qld Product Safety Notice

A Product Safety Notice has been issued to warn Queenslanders about Ethanol Fireplaces. A number of recent severe burns injuries have been attributed to the products. The Qld Office of Fair Trading has launched an investigation into Ethanol Fireplaces to ensure safety concerns with the products are appropriately considered.

Ethanol fireplaces are advertised as smokeless, eco-friendly products that do not require professional installation, connection to gas lines or ventilation. They come in a variety of styles, including freestanding and models intended to sit atop furniture.

The [Safety Warning Notice \(1 page pdf\)](#) was issued by the Qld Attorney-General & Minister for Justice on 10 July 2014.

www.fairtrading.qld.gov.au/marketplace/product-safety/safety-warnings/ethanol-fireplaces and

www.health.qld.gov.au/news-alerts/news/140702-ethanol.asp

• Using LP Gas Safely: WA Dept of Commerce

2nd July 2014: WA Dept of Commerce Energy Safety

LP Gas is safe if handled correctly. If you own or hire LP Gas cylinders, you should be aware of the basic properties of the gas as well as safe handling and operating principles.

[Using LP Gas Safely - English.pdf](#) (4 pages)

[Using LP Gas Safely - Chinese.pdf](#) (4 pages)

[Using LP Gas Safely - Malay.pdf](#) (4 pages)

From: www.commerce.wa.gov.au/publications/using-lp-gas-safely

• ECHA RAC Adopts 7 Opinions for CLH

11 June 2014: The Committee for Risk Assessment (RAC) adopted seven opinions for Harmonised Classification & Labelling (CLH).
1/ Bupirimate (fungicide); 2/ 1-Methyl-2-Pyrrolidone (NMP); 3/ Propylene Oxide; 4/ 1,5-Pentanedial (Glutaraldehyde); 5/ Tinuvin 123 (stabiliser); 6/ Flumioxazin (herbicide); 7/ 1,2-Dichloropropane (PDC).

From: http://echa.europa.eu/view-article/-/journal_content/title/rac-concludes-on-scientific-opinions-for-clh

• Four New SVHCs: ECHA Candidate List Updated

16 June 2014: The European Chemicals Agency has added Cadmium Chloride; a Phthalate (1,2-Benzenedicarboxylic Acid, Dihexyl Ester, Branched and Linear); and two Boron substances (Sodium Peroxometaborate and Sodium Perborate); to the Candidate List, which now contains 155 Candidate Substances of Very High Concern (SVHC).

EU Producers and Importers of articles, containing any of the four substances included in the Candidate List by 16 June 2014, have six months from today to notify ECHA if both of the following conditions apply:

- the substance is present in those articles in quantities over one tonne per producer or importer per year, and
- the substance is present in those articles above a concentration of 0.1% weight by weight.

From: http://echa.europa.eu/view-article/-/journal_content/title/candidate-list-updated-with-four-new-svhcs

• Trichloroethylene Toxicological Review: USA EPA

June 2014: USA TSCA Work Plan Chemical Risk Assessment: Trichloroethylene CAS: 79-01-6, Degreasing, Spot Cleaning and Arts & Crafts Uses.

Main Conclusions of this Risk Assessment: **1/** This risk assessment identifies cancer risk concerns and short-term and long-term non-cancer risks for workers and occupational bystanders at small commercial degreasing facilities and dry cleaning facilities that use TCE-based solvents and spotting agents, respectively. **2/** EPA/OPPT also identifies short-term non-cancer risks for consumers and residential bystanders from the use of TCE-containing solvent degreasers and spray-applied protective coatings.

From: www.epa.gov/oppt/existingchemicals/pubs/TCE_OPPTWorkplanChemRA_FINAL_062414.pdf (212 page pdf)

• RR1005 - Work Aggravated Asthma Review

2014 UK HSE Research Report RR1005: Work Aggravated Asthma: A Review of Reviews.

Asthma is common in adults. 7% of the adult population (in the UK) have this condition. Most Asthma requires medication to control the disease. Asthma is commonly made worse by inhaled exposures at work, and most of the agents responsible are irritant in nature. This is termed Work Aggravated Asthma (WAA), defined as “pre-existing or concurrent Asthma that is worsened by workplace conditions”.

This review of reviews was undertaken to provide a narrative on the factors that can aggravate pre-existing Asthma in the workplace.

Fifty-two abstracts were reviewed, from which 19 papers were obtained and assessed. Sixteen of these were included in the final evidence table (Table 2). Three of the sixteen articles were specifically related only to WAA, rather than more general reviews of work-related Asthma.

Report: www.hse.gov.uk/research/rrpdf/rr1005.pdf (33p)

From: www.hse.gov.uk/research/rrhtm/rr1005.htm

• Health Effects of Water Fluoridation Call for Evidence

The National Health and Medical Research Council (NHMRC) is commencing an evaluation of the evidence on the [Health Effects of Water Fluoridation](#). As part of this process, NHMRC has appointed a team from the University of Sydney to undertake a systematic review which asks specific research questions and uses a rigorous and clearly documented methodology to search for, select and evaluate studies.

The Australian community is invited to participate in this activity by providing citations (published after 1 Oct 2006) for relevant published studies to NHMRC for evaluation in the systematic review.

To be accepted by NHMRC, published studies must meet all of the 6 criteria (which are on the webpage).

Comment Closes 10am Friday 22 Aug 2014.

All submissions must be made through the **online public consultation portal via the website below**. If this is not possible, please contact the NHMRC Fluoride Project Team to request alternative arrangements.

Please Note: Email Submissions will Not be Accepted.

NHMRC website: [Health Effects of Water Fluoridation](#)

From: http://consultations.nhmrc.gov.au/public_consultations/water-fluoridation

Chemical Management

• ECHA: Review Mixture Classification & Labelling

From 1 June 2015, the Classification, Labelling and Packaging (CLP) Regulation will be the only legislation to apply to the classification and labelling of both substances and mixtures. CLP requires companies to classify, label and package their hazardous chemicals appropriately before placing them on the EU market.



From: <http://echa.europa.eu/web/guest/clp-2015>

Editor: In Australia GHS Classification, SDSs and Labelling is mandatory on 1 Jan 2017. You have only 2 yrs & 4mths left.

• GHS Hazardous Chemical Training Tools

The Safe Work Australian Pptx Presentations & Training Sheets are released under the Creative Commons Attribution 3.0 Australia Licence & may be reused & redistributed free of charge.

For more information see: www.safeworkaustralia.gov.au/sites/swa/copyright/pages/copyright

- [GHS Training Part 1 - Introduction](#) (41 slide pptx)
- [GHS Training Part 2 - Classification](#) (46 slide pptx)
- [GHS Classification Training Question Sheet](#) (12p docx)
- [GHS Classification Training Answer Sheet](#) (6p docx)
- [OSHA Training Tutorials - Free](#) (website)
- [QLD Government "Introduction to the GHS"](#) (7p pdf)
- [Wikipedia GHS Pictograms](#) (website)
- [Society for Chemical Hazard Communication](#) (USA website)

From: www.safeworkaustralia.gov.au/sites/swa/whs-information/hazardous-chemicals/classifying-chemicals/pages/classification

Editor: There is also a UK Chemical Hazard Communication Society at www.chcs.org.uk/ that has an excellent email forum that you can join for free and see questions asked and answered at: www.chcs.org.uk/email-forum.htm. As the EU GHS and DG regulations are very similar to Australia, this is a very useful service for us in Australia. I have been a member of the UK CHCS for many years.

• GHS Classification Training: Chemical Supply Industry

This free GHS Classification Training, hosted by Safe Work Australia, is primarily intended to assist Small to Medium Sized Enterprises in the Australian Chemical Supply Industry, with a responsibility for preparing Safety Data Sheets and Labels in compliance with Australian Work Health and Safety legislation.

Presented by Richard Greenwood, Senior Consultant – Hazardous Chemicals, Greencap-NAA.

Each session will run from 9am to 4pm, and will include:

Part 1: An introduction to the GHS; Part 2: Classifying chemicals & mixtures according to the GHS; Part 3: Practical examples: Classifying chemicals according to the GHS

Priority will be given to registrants from this industry sector, so when you register your interest by selecting the applicable Registration Link you will be asked to provide work details to allow this. If successful your position on the course will be confirmed by 14 days before the course date.

Note: Some Course Dates may already be filled.

City	Course Date	Registration of Interest Link			
Wollongong -	27 Aug	http://ems.gs/3iHc0jhOvd	Sydney -	28 Aug	Full
Brisbane -	8 Sept	http://ems.gs/3iHc0qwOvq	Townsville -	9 Sept	http://ems.gs/3iHc0dQOvp
Newcastle -	18 Sept	http://ems.gs/3iHc0iHOvq	Adelaide -	23 Sept	http://ems.gs/3iHc0jEOvr
Adelaide -	24 Sept	http://ems.gs/3iHc0JdOvs	Melbourne -	7 Oct	Full
Geelong -	9 Oct	http://ems.gs/3iHc0kFOvy	Perth -	14 Oct	http://ems.gs/3iHc0goOvz
Rockingham -	15 Oct	http://ems.gs/3iHc0ezOvA	Launceston -	28 Oct	http://ems.gs/3iHc1fRcSAM

Contact GreencapNAA, GHSinfo@greencap.com.au for them to forward location details or registration links to you.

• Vic OHS Amendment Regulations 2014

The Victorian Occupational Health and Safety Amendment Regulations 2014 (OHS Amendment Regulations) come into effect on 1 July 2014.

Some of the changes (related to chemicals management):

1.1.5 Definitions: Schedule 1 carcinogenic substance and Schedule 2 carcinogenic substance are now defined by reference to new Schedules 5A and 5B of the OHS Amendment Regs.

1.1.5 Definitions: GHS means the Globally Harmonized System of Classification and Labelling of Chemicals, Third revised edition, Fourth revised edition or Fifth revised edition, published by the United Nations.

3.5.50 Items of plant to be registered (and Part 2 of Schedule 2). This regulation has been removed.

Please Note: Under the Vic OHS Act, employers must still provide or maintain plant or systems of work that are, so far as is reasonably practicable, safe and without risks to health.

An employer must ensure that any record of inspections and maintenance carried out on plant, specified in 3.5.31 of the OHS Regulations, is retained for the period that the employer had management or control of that plant.

4.1.5 Preparation of an MSDS. A note has been added at the foot of regulation 4.1.5(2) to make it clear that an MSDS prepared in accordance with equivalent legislation may be described as a Safety Data Sheet (SDS) under that legislation.

4.1.16 Currency of MSDS: This regulation has been removed.

Explanation: The requirement that an MSDS be checked at least every five years has been removed, so as not to confuse the obligation to ensure it is current.

4.4.27 Information to go to Authority: Employers must forward the results of biological monitoring and a copy of the report of any medical examination in respect of employees removed from a Lead risk job to the VWA as soon as is reasonably possible. Previously these had to be forwarded within 48 hours.

Employers are no longer required to notify the VWA in writing within seven days of the medical practitioner engaged to undertake medical examinations.

www.vwa.vic.gov.au/_data/assets/pdf_file/0014/131261/OHS-Amendment-Regulations-2014-web.pdf (11 pages)

From: www.vwa.vic.gov.au/laws-and-regulations/occupational-health-and-safety/ohs-amendment-regulations-2014

• Security Concern Consultation: 84 Toxic Chemicals

The Australian Government is exploring whether to introduce security controls for 84 toxic chemicals of security concern.

List of 84 toxic chemicals of security concern [[doc 69kB](#)] [[pdf 46kB](#)] (2 pages)

Regulation Impact Statement (RIS) on toxic chemicals of security concern [[pdf 1.5mB](#)] & [[doc 1.4MB](#)] (8 pages) includes a preliminary analysis on the costs and benefits of each option.

Businesses, government agencies and individuals who handle, manage or use any of the 84 toxic chemicals have an opportunity to shape government policy on this issue by commenting on the RIS. Views can be put forward and issues commented on, such as cost, and likely uptake and effectiveness of a range of measures.

Submissions close on 27 August 2014.

Email to chemical.security.RIS@ag.gov.au

From: www.chemicalsecurity.gov.au/ris and

www.nicnas.gov.au/communications/publications/chemical-gazette/chemical-gazette-august-2014/consultations/chemicals-of-security-concern-consultation

• Isocyanates: Health Surveillance Guide

WA Dept of Commerce / Worksafe WA: Isocyanates: Health Surveillance - Guide for Employers.

www.commerce.wa.gov.au/sites/default/files/atoms/files/isocyanates_health_surveillance_guidance_for_employers.pdf (1 page)

From: www.commerce.wa.gov.au/publications/isocyanates-health-surveillance-guide-employers

• ECHA Newsletter June 2014

- 1/ [Through the Deadlines towards Safer Chemicals](#);
- 2/ [High-Quality Data - a Key Factor for Industry and ECHA](#);
- 3/ [Is the Substance Identifier in your Registration Correct?](#)
- 4/ [Biocides – Important Changes for Companies](#);
- 5/ [Progress in using Alternative Testing Methods](#).

From: <http://newsletter.echa.europa.eu/>

• ACTRA e-Newsletter – Autumn 2014

Australasian College of Toxicology & Risk Assessment.

Some items the [Autumn 2014 e-Newsletter](#) contains are:

- National Environment Protection (Assessment of Site Contamination) Measure amendments approved April 2013.
- Perspectives on Applications of In Vitro Toxicity Assays in Chemical Mixtures Testing.

From: www.actra.org.au/news.html

• NZ Hazardous Substances Update Newsletters

NZ EPA [Hazardous Substances Update: July 2014](#)

1/ [Worksafe NZ HSNO Functions from 1 Sept 2014](#);

2/ [Submissions Sought for on Modified Reassessment of Certain OPC Substances](#) APP202142.

NZ EPA [Hazardous Substances Update: June 2014](#)

1/ [Using Hazardous Substances in Fibreglass Boat Building](#);

2/ [NZ EPA Data Requirements for Chemical Pesticides](#);

3/ [Agrichemical & Safety Gear Campaign to Protect Farmers](#).

From: www.epa.govt.nz/publications-resources/publications/Newsletters/hs-update/Pages/default.aspx

• Worksafe NZ HSNO Functions from 1 Sept 2014

From 1 Sept 2014, WorkSafe New Zealand will undertake, on behalf of the [NZ Environmental Protection Authority](#) (NZ EPA), certain hazardous substance functions under the NZ Hazardous Substance and New Organisms (HSNO) Act. This includes:

- Issuing test certifier approvals, renewals and extensions
- Oversight of the test certification regime
- Issuing controlled substance licences
- Issuing approvals for plant & equipment used in workplace
- Approval of HSNO codes of practice
- Development of guidance material & other information resources.

From: www.business.govt.nz/worksafe/about/what-we-do/hsno-functions

• NZ Hazardous Substances Applicant Workshops

The NZ EPA Hazardous Substances Team recently held two workshops for applicants in Auckland and Melbourne in March and June 2014.

Applicants met some of the team and gained advice on the new forms, GAP tables, data requirements, how HSNO treats impurities and confidential information.

[Auckland HS Presentation-March2014](#) (114 slide pdf)

(Applicant Workshop)

[Melbourne HS Presentation Day 1-June 2014](#) (132 slide pdf)

(Applicant Workshop)

[Melbourne HS Approval Day 2 –June 2014](#) (179 slide pdf)

(Assigning a Product to a HSNO Approval)

Just because a substance is considered non-hazardous in Australia or another jurisdiction does not necessarily mean it is considered non-hazardous under HSNO.

Types of approvals: Individual Approval; Group Standard; Containment Approval.

From: www.epa.govt.nz/news/news/Pages/Applicant-workshops-held.aspx

• NZ EPA Data Reqs: New Chemical Pesticides

Details of the [NZ EPA's data requirements](#) (38 page pdf, May 2014) for new chemical pesticides.

It covers: 1/ Information needed to assess an application in relation to identification, physical-chemical properties, toxicological effects, environmental fate and ecotoxicological effects. 2/ Information needed for the assessment of a new active ingredient, a new plant protection product or for any relevant metabolites of the active ingredient. Plus information that is always needed, & which is only conditionally required.

Non active ingredient components of concern; and impurities of active ingredients are also included.

From: www.epa.govt.nz/hazardous-substances/approvals/Pages/data_reqs.aspx

• USA Actions to Improve Chemical Safety & Security

6 June 2014: USA Actions to Improve Chemical Facility Safety and Security – A Shared Commitment, summarizes the Working Group's progress, focusing on actions to date, findings and lessons learned, challenges, and short and long-term priority actions.

https://www.osha.gov/chemicalexecutiveorder/final_chemical_eo_status_report.pdf (121 pages)

This report is in response to the President issued Executive Order 13650 – Improving Chemical Facility Safety and Security, 1 Aug 2013 – to improve the safety and security of chemical facilities and reduce the risks of hazardous chemicals to facility workers and operators, communities, and responders.

<http://www.whitehouse.gov/the-press-office/2013/08/01/executive-order-improving-chemical-facility-safety-and-security>

From: <http://social.dol.gov/blog/a-shared-commitment-improving-chemical-facility-safety-and-security/>

• USA EPA: Improving Chemical Facility Safety and Security

31 July 2014: Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act, Section 112(r)(7) - A Proposed Rule by the USA EPA.

USA EPA's [Request for Information](#) (RFI) seeks comments on potential revisions aimed at modernizing the agency's regulations, guidance and policies as required under the executive order. The public comment period lasts for 90 days after publication.

In this Request for Information, the USA EPA Agency asks for information and data on specific regulatory elements and process safety management approaches, the public and environmental health and safety risks they address, and the costs and burdens they may entail.

The USA EPA will use the information received in response to this RFI to inform what action, if any, it may take.

RFI: <https://www.federalregister.gov/articles/2014/07/31/2014-18037/accidental-release-prevention-requirements-risk-management-programs-under-the-clean-air-act-section>

From: http://epa.gov/emergencies/eo_improving_chem_fac.htm

• UK HSE Respiratory Protective Equipment

The UK HSE has updated its information and tools to help employers introduce and manage the use of RPE.

A Practical Guide: www.hse.gov.uk/pubns/books/hsg53.htm
4th Edition, 2013, 59 pages.

From: www.hse.gov.uk/respiratory-protective-equipment/index.htm

Alerted by: [UK HSE Health & Safety Newsletter - Spring 2014](#)

• UK HSE Review: Hand Cleaning Products Efficacy

2014 Research Report RR1007 - A review of the data on Efficacy of Hand Cleaning Products in Industrial Use as alternatives to hand washing.

"Alcohol preparations based on either gels or liquid hand rubs can offer a significant reduction in microbiological hand contamination, with some studies claiming multi-log reductions under specified conditions that are greater than hand washing approaches. However, there are important limitations to how alcohol rubs and gels should be used, and these may introduce uncertainties regarding their efficacy."

e.g. Alcohol based gels and rubs should therefore only be used when the hands are visibly (i.e. physically) clean.

Report: www.hse.gov.uk/research/rpdf/rr1007.pdf (42 pages)

From: www.hse.gov.uk/research/rrhtm/rr1007.htm

• USA 2012 Chemical Data Reporting Information

11 June 2014: 2012 Chemical Data Reporting (CDR) information on the production and use of chemicals manufactured or imported into the United States of America. [Download the entire non-confidential CDR database \(updated June 2014\).](#)

From: USA EPA Chemical Data Access Tool (CDAT) at: http://java.epa.gov/oppt_chemical_search/

From: www.epa.gov/cdr/

• USA EPA ChemView Database

The USA EPA's newly developed database, ChemView, provides access to chemical information that the Agency receives and develops on chemicals. For more information, [Go to ChemView.](#)

Use this database to get information on chemical health and safety data received by the USA EPA and USA EPA's assessments and regulatory actions for specific chemicals under the USA Toxic Substances Control Act (TSCA).

Data may not be posted yet but will be available in the future as the USA EPA continues to populate the database.

From: <http://java.epa.gov/chemview>

• Inventory of Existing Cosmetic Ingredients in China

30 June 2014: The final version of the Inventory of Existing Cosmetic Ingredients in China (IECIC 2014) was published on 30 June 2014, according to the official notice issued by China Food & Drug Administration (CFDA). There are 8783 ingredients listed in the final version of IECIC 2014.

The English INCI Name Version of the final version of IECIC (2014) is available as a 1.2Mb spreadsheet at: www.cirs-reach.com/Inventory/IECIC%202014_FIN.xls

The main references for the final version of IECIC (2014) are:

- IECIC 2003;
- 3 draft versions of IECIC 2012;
- Hygienic Standard for Cosmetics (2007);
- Approved new cosmetic ingredients;
- Ingredients used in approved domestic non special use cosmetics.

Note: The safety of ingredients listed in the final version of IECIC (2014) has not been evaluated by CFDA.

From: www.cirs-reach.com/news/CFDA_Final%20Version_Inventory_of_Existing_Cosmetic_Ingredients_in_China.html

• List of MAK and BAT Values 2013:

Maximum Concentrations & Biological Tolerance Values at the Workplace – Free Online

Published Free Online: 15 Aug 2013

By Wiley-VCH Verlag GmbH & Co. KGaA

For: Deutsche Forschungsgemeinschaft (DFG)

MAK values (Maximum Concentrations at the Workplace) and BAT values (Biological Tolerance Values) promote the protection of health at the workplace. They are an efficient indicator for the toxic potential of chemical compounds. This book contains a list of scientifically recommended threshold limit values for about 1000 chemical compounds. Carcinogens, Germ Cell Mutagens, Embryotoxicants, Sensitizing Substances and those potentially bearing a risk to pregnancy are treated separately. Of particular value are the lists of substances which were reviewed in the past 12 months, including substances being examined for the establishment of MAK and BAT values in coming years.

The book is downloadable in 19 parts. Some MAK parts are:

- Chapter II [List of Substances](#) (pages 19–154)
- Chapter III [Carcinogenic Substances](#) (pages 155–173)
- Chapter IV [Sensitizing Substances](#) (pages 174–190)
- Chapter VIII [MAK Values & Pregnancy](#) (pages 202–204)
- Chapter IX [Germ Cell Mutagens](#) (pages 204–205)
- Chapter X [Substances Requiring Special Consideration](#) (pages 206–213)

<http://onlinelibrary.wiley.com/book/10.1002/9783527675128>

The Sept 2013, 294 page hardcopy, ISBN: 978-3-527-33616-6 is available to purchase for AU\$174.95 plus postage at: <http://au.wiley.com/WileyCDA/WileyTitle/productCd-3527336168.html>.

Editor: 2014 versions of both should be available by late 2014.

• 2014 ACGIH Threshold Limit Values® and BEIs®

The information in this user-friendly, pocket-sized publication is used worldwide as a guide for evaluation and control of workplace exposures to chemical substances and physical agents. Threshold Limit Value (TLV®) occupational exposure guidelines are recommended for more than 700 chemical substances and physical agents. There are more than 50 Biological Exposure Indices (BEIs®) that cover more than 80 chemical substances. Chemical Abstract Service (CAS) registry numbers are listed for each chemical. Introductions to each section and appendices provide philosophical bases and practical recommendations for using TLVs® and BEIs®.

Cost: USA\$49.95 plus USA\$9.95 postage.

From: www.acgih.org/store/ProductDetail.cfm?id=2331

• USA OSHA Quick Takes e-News: Jun-Aug 2014

I've scanned through the 1 April 2014 – 2 June 2014 e-News and listed items about Hazardous Substances / Chemicals.

16 June 2014: **1/** Interagency Report released on improving chemical facility safety and security; **2/** Wisconsin pharmaceutical manufacturing facility fined \$449,680 for failing to protect workers from dangerous chemicals, other hazards; **3/** Stakeholder meeting scheduled to consider proposed standard to protect emergency responders.

[1 July 2014](#): **1/** OSHA urges increased safety awareness in fireworks industry in advance of July 4 celebrations ([Video](#)).

[1 Aug 2014](#): **1/** Wisconsin fiberglass plant resolves OSHA violations by agreeing to limit worker exposure to styrene; **2/** Focused enforcement program launched to prevent injuries and fatalities in North Dakota's oil and gas and construction industries. OSHA's [Oil and Gas Well Drilling eTool](#) identifies common hazards and possible solutions to reduce incidents that could lead to injuries or fatalities. **3/** Environmental Protection Agency publishes Request for Information on improving chemical facility safety and security.

From: www.osha.gov/as/opa/quicktakes/

NICNAS (Industrial Chemicals)

• Annual Reporting of New Industrial Chemicals

A person introducing a new industrial chemical under certain permits, certificates or exemptions in a registration year is required to provide a report to the Director, NICNAS, stating the name and quantity of the chemical that was introduced during the previous registration period (**1 Sept 13 to 31 Aug 14**) are due for submission to NICNAS by **28 Sept 2014**.

From: www.nicnas.gov.au/communications/publications/chemical-gazette/chemical-gazette-august-2014/special-notices/annual-reporting

• Update: 9th Tranche IMAP Assessments

9th Tranche Inventory Multi-Tiered Assessment and Prioritisation (IMAP) Assessments are now available. Comment was due by the 15th Aug 2014.

Tier II—Human Health Assessments (identified by Tranche Nine in the tranche column, is the only Spreadsheet with Assessments where you can weblink to useful data.

Note: This spreadsheet includes all the Tranches.

37 Individual or Group Assessments of the 371 Chemicals in Tier II Tranche 9 Health Assessments caught the Editor's attention as they recommended new HSIS change or entry; recommended to be added to the SUSMP or recommended a Tier III assessment. I have only included those which are recommended to be in the SUSMP or those where a Tier III assessment is recommended. Most of the 37 also recommended new or amended HSIS classifications. (I've included two which are an HSIS change only, identified as (HSIS)).

(Weblinks from the Tier II Tranche 9 Health spreadsheet):

Alkoxyethanols (C1-C2) and their Acetates	Various CAS	Aluminium Chlorides	Various CAS
Benzenamine, 4,4'-Methylenebis[2-Chloro-	101-14-4	1,4-Benzenediamine, 2-Nitro-	5307-14-2
Carbon Disulfide (HSIS)	75-15-0	C.I. Acid Black 29	12217-14-0
C4-6 Side Chain Transitional Phthalates	Various CAS	Cobalt Chlorides and Citrates	Various CAS
Cobalt Nitrate	Various CAS	Cobalt Oxide	1307-96-6
Cobalt Salts of 2-Ethylhexanoic Acid etc	Various CAS	Cobalt Salts of Organic Acids	Various CAS
Crystalline Silica (see separate Note below)	Various CAS	Formaldehyde Donors	Various CAS
Hexafluorosilicate Salts (K ⁺ , Na ⁺ , NH ₄ ⁺) (HSIS)	Various CAS	Hydrochloric Acid	7647-01-0
3(2H)-Isothiazolone, 5-Chloro-2-Methyl-	26172-55-4	Tertiary Aliphatic (C12-22) and Fatty Amines	Various CAS
1-Octadecyl- and Hydrogenated Tallow Alkyl- Amines	Various CAS	Selected Benzidine-Congener-Based Dyes	Various CAS
Soluble Cobalt (II) Salts	Various CAS	Sparingly-Soluble Cadmium Salts	Various CAS

For Information on IMAP ph: 02-8577-8870,

email: imap@nicnas.gov.au

From: www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessments/public-comment

9th Tranche Tier II Health 372 Assessments Spreadsheet:

www.nicnas.gov.au/_data/assets/excel_doc/0014/7061/Tier-II-HH-summary-all-tranches-published-4-Aug-2014.xlsx

9th Tranche Tier II Environment 16 Assessments Spreadsheet:

www.nicnas.gov.au/_data/assets/excel_doc/0003/8481/IMAP_Environment_Tier_II_Summary_all-tranches-published-4-July-2014.xlsx (Sixteen 1:2 Lead(2+) Salts of Medium-Chain Carboxylic Acids)

• Crystalline Silica: NICNAS Proposed Classifications

The 9th Tranche IMAP Assessments includes Respirable Crystalline Silica as a Group:

Cristobalite (SiO ₂)	CAS 14464-46-1;	Quartz (SiO ₂)	CAS 14808-60-7;
Fumes, Silica	CAS 69012-64-2;	Silica	CAS 7631-86-9.

This Group of Crystalline Silica should not be considered analogous to amorphous (polymorphic) form(s) of Silicon Dioxide, especially with respect to their toxicity; the key physico-chemical difference being that Crystalline Silica has a regular

repeating 3-dimensional pattern that is not present in Amorphous Forms of Silica (IARC, 2012; Environment & Health Canada, 2013).

The **NICNAS proposed classifications below apply only to the Respirable Fractions** of chemicals in this group.

Repeat Dose Toxicity:

Toxic: danger of serious damage to health by prolonged exposure through inhalation (T; R48/23)
 Causes damage to organs through prolonged or repeated exposure through inhalation - Cat. 1 (H372)

Carcinogenicity:

Carc. Cat 1 - May cause cancer by inhalation (T; R49)
 May cause cancer - Cat. 1A (H350i)

From: www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1120

• **Public Comment Outcomes for IMAP Tranche 8**

An overview of comments made regarding specific chemicals in the IMAP Tier II assessment reports and the NICNAS response is provided. All the Tranches are included. The revised IMAP assessments (subsequent to their publication) can be viewed on the NICNAS website by clicking on the CAS Registry number or group assessment name.

CAS No. or Groups with Tranche 8 amendments are:

[2682-20-4](#) [7440-02-0](#) [10099-74-8](#) [14177-55-0](#) [25808-74-6](#) [85292-77-9](#)
[Lead Cyanamides](#) [Soluble Cobalt \(II\) & Salts](#) [Selected Refined Base Oils](#)

From: www.nicnas.gov.au/chemical-information/imap-assessments/imap-assessments/public-comment/overview-of-public-comment-received-for-imap-assessments

• **Revision of NICNAS Consultative Arrangements**

NICNAS has reviewed its current stakeholder engagement arrangements, with the aim of improving the efficiency and effectiveness of its engagement mechanisms, and is proposing a revised engagement model.

A 32 page **Discussion Paper** on the [Proposal for Revised NICNAS Consultative Arrangements](#) is published for a 6-week period of public consultation. The **closing date** for written submissions is 5 pm **1 Sept 2014**.

It is proposed NICNAS establishes:

a) a single representative strategic consultative committee, for consultation on broad strategic issues related to the efficient and effective functioning of the scheme;

The single strategic committee will be comprised of representatives of key peak national organisations from both external stakeholder sectors (regulated industry, and non-Government community-based organisations representing the beneficiaries of regulation) and will replace the current IGCC and CEF.

And **b) one or more expert committees** that advise on specific technical issues as appropriate.

One or more time-limited and topic-specific expert committees would be established by NICNAS as required. Experts could be nominated by any stakeholder group, or identified by NICNAS. The representative strategic consultative committee may advise on the need for additional expert groups.

The pros & cons are outlined in 4.1.2 in the discussion paper.

From: www.nicnas.gov.au/communications/consultations/current-consultations and the 32 page Discussion Paper.

• **Draft Guidelines: Confidential Chemicals Listing**

NICNAS sought feedback on proposed draft guidelines relating to listing chemicals on the confidential section of the Australian Inventory of Chemical Substances (AICS), and for requests where certain information provided to NICNAS be exempt from publication.

The [June 2014 Draft Guidelines](#) (25 pages) are still available. Comment closed 29 July 2014.

From: www.nicnas.gov.au/communications/publications/chemical-gazette/chemical-gazette-July-2014/consultations/comments-sought-on-revised-guidelines

• **AICS Amendments: Admin Error Chemicals**

The NICNAS Director has amended the public section of the AICS to correct an error relating to nomination of the industrial chemicals listed below. These chemicals had been nominated to the AICS by industry and the Director is satisfied that, due to an administrative error during the nomination phase, these chemicals were not included in the AICS.

The Chemical's CAS No.s added to the AICS with links are:

[1920-05-4](#) [2668-47-5](#) [5116-94-9](#) [5116-95-0](#) [6257-39-2](#) [11115-91-6](#) [15701-48-1](#) [19812-92-1](#)
[19855-61-9](#) [24287-35-2](#) [25324-14-5](#) [27236-51-7](#) [35946-91-9](#) [42479-87-8](#) [42479-88-9](#) [43184-66-3](#)
[51541-51-6](#) [61188-13-4](#) [61188-14-5](#) [65121-88-2](#) [65138-80-9](#) [65229-24-5](#) [71487-01-9](#) [72207-65-9](#)

From: www.nicnas.gov.au/communications/publications/chemical-gazette/chemical-gazette-July-2014/australian-inventory-of-chemical-substances/notice-of-amendments-to-the-australian-inventory-of-chemical-substances3

Scheduled Medicines & Poisons

- **Reasons for Scheduling Delegates' Final Decisions**

7 August 2014:

[1-Butanol](#) (included in Schedules 5 and 6 from 1 July 2015)

[1-Propanol](#) (matter referred back to the ACCS)

[2,4-Diaminophenoxyethanol Sulfate](#) (new S6 entry from 1 July 2015)

[2-Ethylhexyl 2 Ethylhexanoate or Hexanoic Acid, 2-Ethyl-, 2-Ethylhexyl Ester](#) (new S6 entry from 1 July 2015)

[Benzoic acid, 2-hydroxy-, \(3Z\)-1-methyl-3-hexen-1-yl ester](#) (not required to be Scheduled)

[Dibutyl Phthalate](#) (new Appendix C (Prohibition) entry for cosmetic use)

[2-Phenoxyethanol or Ethanol, 2-Phenoxy-](#) (new S6 entry from 1 Oct 2014)

[Hexamine or 1, 3, 5, 7-Tetraazatricyclo \[3.3.1.1^{3,7}\] Decane](#) (new S5 entry from 1 Oct 2014)

[Lambda-Cyhalothrin](#) (amended S6 entry from 1 Oct 2014)

[Methyl Isobutyl Ketone or 2-Pentanone, 4-Methyl](#) (no change to the current S5 listing)

[Methylated Spirit\(s\)](#) (interim decision set aside)

[Oxalic Acid](#) (no change to the current S5 listing, plus a question)

[PPG-1-PEG-9 Lauryl Glycol Ether or Glycols, 1,2-, C12-16, Ethoxylated Propoxylated](#) (not required to be Scheduled)

[4,4-Dimethyl-1-Cyclohexene-1-Propanal](#) (new S6 entry from 1 July 2015)

[Propoxur](#) (Sched 5 amended pressurised spray packs to 2%)

Public Submissions (34 pages on these chemicals are in:

www.tga.gov.au/pdf/submissions/scheduling-submissions-1406.pdf. In particular the Accord 11 July 2014 submission on pages

2 to 16, discusses: Methylated Spirits; 1-Butanol;

1-Propanol; 2-Ethylhexyl 2-Ethylhexanoate;

2,4-Diaminophenoxyethanol Sulfate; and Lauryl Sulfates.

From: www.tga.gov.au/industry/scheduling-decisions-1408-final.htm#U-V8zKOc6k8

Food Chemical Issues

- **P1029 – Maximum Level for Tutin in Honey**

The purpose of Proposal P1029 is to develop a permanent maximum level for Tutin in honey.

Tutin is a plant-derived Neurotoxin which is sometimes detected in New Zealand honey. Tutin contamination of honey occurs when bees gather honeydew from an insect that feeds on sap of the shrub *Coriaria Arborea* ("tutu"). Consumption of tutu honeydew honey can result in serious acute adverse health effects.

For acute neurotoxins, such as Tutin, severe symptoms of poisoning (e.g. tonic-clonic convulsions) usually correspond to the time taken to achieve their maximal concentration in serum (typically less than 3-4 hours after ingestion).

As no method is currently available for the quantification of Tutin Glycosides in honey, the continued use of an ML based on the level of Tutin is necessary. In order to protect consumers from minor adverse effects such as those reported in the pharmacokinetic study, a reduction in the ML by a factor of 3 is proposed, resulting in a revised ML of 0.7 mg/kg for extracted/blended honey.

[Call for Submissions - 10 July 2014](#) (18 page pdf)

[Supporting Document 1 - Risk Assessment](#) (41 page pdf)

[Supporting Document 2 - Consultation RIS](#) (27 page pdf)

Please comment by 21 Aug 2014:

Electronically submit through the FSANZ website via the link on documents for public comment (preferred). Or email your submission directly to submissions@foodstandards.gov.au.

From: www.foodstandards.gov.au/code/proposals/Pages/P1029-Maximum-Level-for-Tutin-in-Honey.aspx

- **A1096 – Xylanase as a Processing Aid (Enzyme)**
Xylanase from *Bacillus Licheniformis*

The purpose of Application A1096 is to approve a genetically modified strain of *Bacillus Licheniformis* as a source for the Enzyme Xylanase for use in the bread-making industry.

[Executive Summary](#) (2 page pdf)

[Supporting Document 1 \(includes the Exec Summary\) - Risk and Technical Assessment Report](#) (11 page pdf)

[Call for Submissions - 25 July 2014](#) (17 page pdf)

Please comment by 5 Sept 2014:

Electronically submit through the FSANZ website via the link on documents for public comment (preferred). Or email your submission directly to submissions@foodstandards.gov.au.

Email questions about making submissions or the application process to standards.management@foodstandards.gov.au.

From: www.foodstandards.gov.au/code/applications/Pages/A1096XylanaseasaPA.aspx

• P1034: Chemical Migration from Packaging into Food

18 June 2014: The purpose of Proposal P1034 is to assess the public health and safety risk of chemicals which may migrate from packaging materials into food, and to identify and manage any risks. Estimated to take 2848 hours.

Major Procedure: The Proposal P1034 will involve complex scientific and technical assessment to support consideration of measures which mitigate risks from chemicals which may migrate from packaging materials into food.

Potentially affected Standards: 1.4.3; 1.4.1; 2.6.2; 3.2.2.

From: www.foodstandards.gov.au/code/proposals/Pages/P1034ChemicalMigrationfromPackagingintoFood.aspx

From: www.foodstandards.gov.au/code/proposals/Pages/default.aspx

• FSANZ Regulation of Novel Foods

Novel Foods are non-traditional foods that require assessment by FSANZ in order to establish their safety before they are added to the food supply.

A Novel Food cannot be sold as food or used as a food ingredient unless it is listed in [Standard 1.5.1 – Novel Foods](#).

The [Advisory Committee on Novel Foods](#) (the ACNF) considers whether particular foods meet the definition of 'non-traditional food' in the Standard and, if so, whether a safety assessment needs to be done.

The ACNF uses a [Guidance Tool](#) (30 page pdf) to assist it in reaching its view on whether a food is Novel or not.

Novel Food - Record of Views Formed in Response to Inquiries

at: www.foodstandards.gov.au/industry/novel/novelrecs/pages/default.aspx

[August 2014 Record of Views](#) (23 pages):

Entries included since the last update are highlighted in **yellow**, **black** text designates views of the now superseded Novel Food Reference Group (NFRG), **blue** text designates views of the ACNF.

From: www.foodstandards.gov.au/industry/novel/Pages/default.aspx

Editor: Companies considering importing or manufacturing with these ingredients need to check this list to see if the ingredient is listed as a Novel Food that can't be used until it has been assessed. You can also approach the ACNF to make a recommendation about whether or not a food is novel.

• Food Standards News

[Food Standards News 114 - July 2014](#)

From: www.foodstandards.gov.au/media/Pages/foodstandardsnews/Default.aspx

Agricultural & Veterinary Chemicals

• Proposed Fluensulfone Active Constituent

12 Aug 2014: Fluensulfone is a Nematicide. It will be used to control root-knot Nematodes in selected vegetable crops including cucumbers, melons, cantaloupes, tomatoes, capsicum, okra, and eggplant.

Please comment by 9 Sept 2014.

Chemical Name: 5-Chloro-2-(3,4,4-Trifluorobut-3-en-1-ylsulfonyl)-1,3-Thiazole; CAS Number: 318290-98-1; Minimum Purity: 957 g/kg; Formula: C₇H₅NO₂S₂ClF₃; MW: 291.7; Chemical Family: Heterocyclic Fluoroalkenyl Sulfones; Mode of Action: Nematicide. Included in Schedule 6 of the SUSMP with no cut-offs or exceptions, and 1 June 2014 implementation date.

APVMA, The Chemistry Manager, Pesticide Program,
ph: 02-6210-4936, em: Registration@apvma.gov.au

From: <http://archive.apvma.gov.au/consultation/public/2014/fluensulfone.php>

- **Reports of Adverse AgVet Experiences 2011 & 2012**

9 July 2014: The APVMA has released the 2011 and 2012 reports of its Adverse Experience Reporting Program (AERP).

The AERP is the main mechanism for the APVMA for stakeholder feedback on adverse experiences relating to the use of registered Agricultural and Veterinary Chemicals. It provides a post-registration monitoring loop that helps facilitate responsible marketing and management of registered Agricultural and Veterinary Chemicals throughout their lifecycle.

[Adverse Experiences for Veterinary Medicines and Agricultural Chemicals – 2012](#) (96 page pdf)

[Adverse Experiences for Veterinary Medicines and Agricultural Chemicals – 2011](#) (103 page pdf)

FreeCall: 1800 700 583 (within Australia),

Email: AERP@apvma.gov.au

http://archive.apvma.gov.au/news_media/news/2014/2014-07-09_reports_of_adverse_experiences_for_2011_and_2012.php

- **Changes to the Agvet Code 1 July 2014 – FAQ**

Links for Common Questions, or Question a specific area of the APVMA via <http://apvma.gov.au/contact-us>.

- [Trade](#)
- [Limits on use of information and limitation periods](#)
- [Applications](#)
- [Tools and systems](#)
- [Chemical review](#)
- [Compliance](#)
- [Pre-application assistance](#)
- [Holders and nominated agents](#)
- [Approvals and registrations](#)
- [Permits](#)
- [Transitional arrangements.](#)

From: <http://apvma.gov.au/node/10991>

Dangerous Goods

- **Aust Dangerous Goods Code 7.3 Available**

The Australian Dangerous Goods (ADG) Code version 7.3 became available to download in June 2014 on the National Transport Commission (NTC) website. See note below about the SP AU02 error.

A voluntary transition period commenced on 1 July 2014 and the updated laws will become mandatory on 1 July 2015.

The States and Territories have not consistently enacted the changes. Until this has occurred the previous ADG 7 Code needs to be retained on the NTC website.

Available from: <http://www.ntc.gov.au> then "Safety & Compliance" then "[Australian Dangerous Goods Code](#)"

- **Error in SP AU02 in the ADG Code 7.3**

A non-agreed version of SP AU02 was inadvertently included in the ADG Code version 7.3.

Until the new wording is resolved, the previous version of SP AU02 will be re-inserted. The eventual intention of changes to SP AU02 is to ensure that GHS Combustible Liquids (such a Diesel) are not transported through tunnels.

The files on the NTC website have the followed note:

(A minor error has been identified in AU02 and a corrected version of the part will be available for download soon.)

Information alerted to the Editor via the DGAG Aug Meeting.

- **NSW Dangerous Goods (Road & Rail Transport)**

The updated [ADG Code](#) took effect in NSW on 1 July 2014, with the commencement of the [Dangerous Goods \(Road and Rail Transport\) Regulation 2014](#).

From: www.epa.nsw.gov.au/dangerousgoods/index.htm

• **Draft: Guide for Applicants: DG Transport CAP**

Transport of Dangerous Goods Competent Authorities Panel Guide for applicants (7 page draft).

The draft Guide provides an overview of the role and functions of the CAP, the applications process, and the available review mechanisms for CAP decisions.

E.g. it includes: What is an approval? 2.3 What is an exemption? What is a determination? What matters should be referred to the CAP for information? What is an interpretation?

E.g. it includes websites:

The CAP main webpage: https://www.infrastructure.gov.au/transport/australia/dangerous/competent_authorities.aspx

Competent Authority contacts webpage: https://www.infrastructure.gov.au/transport/australia/dangerous/str_compauth.aspx

e.g. it includes Timeframes: The CAP normally meets twice a year around May and November.

Request an email copy from Asa Masterman, Road Safety Policy, Department of Infrastructure and Regional Development, **Email** Asa.Masterman@infrastructure.gov.au.

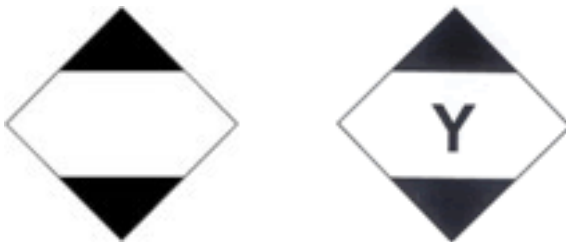
This is not a "discussion paper" on the CAP itself. The intent is simply to provide a guide to help clarify and explain the CAP's processes.

Please email comments to Asa by Friday 29 Aug 2014.

From the draft and the email from Asa Masteman.

• **Limited Quantities Dangerous Goods Marking**

The Limited Quantities Dangerous Goods Diamond Marking (with no UN No in the middle) becomes mandatory from the 1st July 2015. The Air mode has a Y in the middle.



This means that you should be alerting your customers to move to this Dangerous Goods Marking as soon as possible, so that all boxes labelled with the OLD Limited Quantities Dangerous Goods Diamond Marking with UN No.s are used up by the end of June 2015.

Retail Distribution Load Trucks which only transport boxes marked with the Ltd Quantities Mark, are not Placard Loads, so they are able to drive through tunnels.

There is a discussion whether to placard Retail Distribution LQ Dangerous Goods only loads over 2000kg, with the Limited Quantities Diamond, which would mean that only Retail LQ DGs would be present for Emergency Services to manage.

I am informed that the transport requirements for LQ DGs will be discussed at the Nov 2014 Meeting of the Competent Authorities Panel.

LQ issues alerted to the Editor via the DGAG Aug Meeting

• **Stability Control: New D.Goods Tank Vehicles**

The NSW EPA has made a [Determination](#) which prohibits the use of Dangerous Goods tank trailers* manufactured on or after 1 July 2014 that are not fitted with electronic stability control. (*) It applies to all tank trailers which are heavy vehicles (GVM greater than 4.5 tonnes) and includes semi-trailers, B-Double trailers and dog trailers.

Determination: www.epa.nsw.gov.au/resources/dangerousgoods/140060TrailerDgList.pdf (36 pages 23 Jan 2014)

From: www.epa.nsw.gov.au/dangerousgoods/index.htm

• **Retrofitting Stability Control: D.Goods Tank Vehicles**

From 1 January 2019, all Dangerous Goods tank trailers* operating in NSW will require electronic stability control. The NSW EPA is presently reviewing comments received during the recent period of consultation with industry. (*) It applies to all tank trailers which are heavy vehicles (GVM greater than 4.5 tonnes) and includes semi-trailers, B-Double trailers and dog trailers.

From: www.epa.nsw.gov.au/dangerousgoods/index.htm

• NSW: Dangerous Goods on Expired Sites Focus

7 July 2014: NSW Sites that have not provided current information about their Dangerous Goods Storage are referred to as 'Expired'. The current Workcover NSW program will focus on Expired Sites with Underground Storage Tanks that have been previously used to store Flammable Gases or Liquids. If these tanks have not been appropriately maintained or decommissioned, they pose a serious risk of fire, explosion and contamination of the environment. Over the next twelve months WorkCover NSW will be visiting expired sites across NSW providing practical advice and assistance to ensure:

- all hazardous chemicals are being stored & handled safely
- any Underground Storage Tanks that are no longer in use have been appropriately decommissioned.
- WorkCover NSW has the most up to date information about the types of Dangerous Goods being stored on these sites

From DG Newsy Stuff 17.07.2014 available via
<http://tech.groups.yahoo.com/group/DangerousGoods>

For Information: thirdparty@workcover.nsw.gov.au

From: www.workcover.nsw.gov.au/newlegislation2012/whs-compliance-and-enforcement/Pages/default.aspx

• Qld: Transporting Dangerous Goods in Tunnels

30 June 2014: With the introduction of tunnels to the South East Queensland road network in recent years, amendments are being made to the Transport Operations (Road Use Management) Act 1995 to ensure there are sufficient deterrents and penalties for drivers transporting commercial quantities of dangerous goods, explosives or radioactive substances through tunnels to protect public safety, transport infrastructure and the environment.

If a vehicle is photographed in a tunnel displaying a Placard, it will be presumed to be transporting Dangerous Goods, unless the driver can prove that the goods had already been delivered. Infringement notices will be issued to the person in charge of the vehicle under the camera detected offence provisions of the Qld Road Use Management Act.

Bill: <https://www.legislation.qld.gov.au/Bills/54PDF/2014/TransportOLAB14.pdf> (p61-63)

Explanatory Speech: www.parliament.qld.gov.au/documents/tableOffice/BillMaterial/140403/Transport.pdf (p1080-1081)

From the Explanatory Note: <https://www.legislation.qld.gov.au/Bills/54PDF/2014/WaterLegMiscProvAB14E.pdf> (p9)

From: www.parliament.qld.gov.au/work-of-assembly/bills-and-legislation/current-bills-register

• AS1940 S&H of Flammable & Combustible Liquids

The Standards Development Committee approved AS1940: The Storage and Handling of Flammable and Combustible Liquids Project Proposal PP896 to commence after August 2014 by *Committee*: ME-017

Proponent: Workplace Health and Safety Queensland, Queensland Department of Justice and Attorney-General

Scope: To update AS1940 in line with the Globally Harmonised System for the Classification and Labelling of Hazardous Chemicals (GHS), incorporate the Buncefield Fire Report Recommendations and revise or clarify various sections of the Standard as part of a 10 yearly review.

National Sector Manager: Jennifer Harwood
Email: Jennifer.Harwood@standards.org.au

From: June 2014 Approved Project Proposals - 8th Round.
www.standards.org.au/StandardsDevelopment/Sectors/Documents/Approved%20Project%20Proposals%20-%20Project%20Prioritisation%20Eighth%20Round.pdf

From: www.standards.org.au/StandardsDevelopment/Sectors/Pages/Sector-Updates.aspx

• WA Dangerous Goods Security Cards Thousands Due for Renewal

23 June 2014: With more than 3000 dangerous goods security cards due to expire in July, and several thousands more over the following months, the Department of Mines and Petroleum is reminding card holders to renew their security cards to avoid losing their security clearance.

Dangerous goods security cards were first introduced in 2008 in response to counter-terrorism measures established by the Council of Australian Governments. Cards must be renewed every five years.

For more information contact WA Resources Safety ph: 08 9358 8002 or em: RSDcustomerservices@dmp.wa.gov.au.

Also on p23 of the WA Resource Safety Matters May 2014 Magazine via: www.dmp.wa.gov.au/20235.aspx#19433

From: www.dmp.wa.gov.au/7105_20319.aspx

• HSE Guidance on UK Explosive Regulations 2014

The UK Explosives Regulations 2014 will come into force on 1 October 2014, when the guidance in L150 will apply. A draft version of L150 (125 pages) is available for download.

L150 Guidance: www.hse.gov.uk/pubns/priced/l150.pdf

This publication is useful for anyone who has duties under the safety provisions of Explosives, particularly employers, private individuals and other people manufacturing explosives, storing larger quantities of explosives or storing explosives that present higher hazards.

Further Information at: www.hse.gov.uk/explosives

From: www.hse.gov.uk/pubns/books/l150.htm

Environmental Notes on Chemicals

• NSW: Underground Petroleum Storage Systems

June 2014: The NSW EPA Regulatory Impact Statement: [proposed Protection of the Environment Operations \(Underground Petroleum Storage Systems\) Regulation 2014](#) (46 page pdf 165kB) examines the economic and social costs and benefits of implementing the [proposed PEO \(UPSS\) Regulation](#) (20 page pdf 272kB).

The requirements of the proposed Regulation improve site infrastructure and enable early detection of leaks from underground petroleum storage systems, to prevent significant soil and groundwater contamination and a consequent reduction in clean-up costs.

The Draft Regulations inform the principal changes include:

- (a) to enable the use of certain secondary leak detection systems, and
- (b) to enable environment protection plans to be kept electronically and as either a consolidated document or a collection of documents, and
- (c) to provide greater flexibility in the devising of loss monitoring procedures for a storage site, and
- (d) to include new definitions (see, in particular, the definition of *leak*) and clarify the meaning of certain existing definitions (see, in particular, the definitions of *petroleum*, *routine maintenance*, *significant modification* and *storage site*), and
- (e) to clarify certain reporting requirements.

Submissions closed 18 July 2014.

From: www.epa.nsw.gov.au/clm/14412risupssreg.htm

• NSW: Reducing Service Station Emissions

Service Station Upgrade Requirements: For existing NSW Service Stations subject to stage one vapour recovery (VR1) requirements, the deadline to install or upgrade equipment has been extended to 1 January 2015. Affected Service Stations that have not yet met the VR1 requirements should act now to avoid regulatory action in 2015.

For information on the development of the NSW Clean Air Regulation Amdmt please refer to the [Better Regulation Statement Expansion of Vapour Recovery at Petrol Service Stations in the NSW Greater Metropolitan Region](#).

[Standards and Best Practice Guidelines for Vapour Recovery at Petrol Service Stations](#) (44 pages) at: www.epa.nsw.gov.au/resources/air/vapourecov09758.pdf

For Information Phone: 131 555 or 9995 5555.

Email: vapour.recovery@epa.nsw.gov.au

From: www.epa.nsw.gov.au/air/petrolvapour.htm

• NSW Risk Based Licensing under the PEO Act

From July 2015, NSW businesses and agencies licensed under the NSW Protection of the Environment Operations (PEO) Act will be assessed for the risk they pose to human health and the environment, and the fees they pay on their environment protection licences will be directly linked to their environmental performance.

Risk-based licensing reforms the NSW State's environmental regulatory framework and enables the NSW EPA to better target high risk and poor performing licensees.

The NSW EPA will be progressively undertaking [Risk Assessments](#) for each Licensed Facility in consultation with the Licence Holder. For licensees to assess their environmental risk, the EPA has developed a risk assessment tool. The tool takes into account site specific risks posed to the environment and the Licensee's environmental performance.

From: www.epa.nsw.gov.au/epaconnect/Issue1May2014.htm

And: www.epa.nsw.gov.au/licensing/licenceintro.htm

• NSW Householders' Asbestos Disposal Scheme

June 2014: The NSW EPA has awarded \$781,000 to 24 local government areas in NSW to participate in the Householders Asbestos Disposal Scheme. This trial will run for 12 months, until July 2015, to minimise the burden on householders who want to do the right thing with their asbestos waste.

From: www.epa.nsw.gov.au/waste/illegalumpgrants.htm

• NSW Draft Guidelines: Reporting Contamination

July 2014: Draft Guidelines on the duty to report contamination under the NSW Contaminated Land Management Act 1997.

In NSW the duty to report the contamination of land to the NSW EPA arises when the land is contaminated at levels above those specified by these draft guidelines and when certain other factors are met.

These guidelines detail the circumstances that can trigger the requirement to notify the NSW EPA about contamination.

Draft Guidelines: www.epa.nsw.gov.au/resources/clm/140417drftclmduty.pdf (23 pages)

From: www.epa.nsw.gov.au/clm/140417drftclmduty.htm

• UBA Germany: Regulate Fracking Now

30 July 2014: The German Federal Environment Agency - Umweltbundesamt (UBA) is pressing for speedy regulation of Fracking technology. "Fracking remains a risk technology – and therefore requires strict guidelines to protect the environment and health. As long as there are no firm statements on the risks of this technology and how they can be controlled, there should be no fracking activity in Germany for the purpose of shale and coalbed gas extraction", said UBA President Maria Krautzberger on the occasion of the presentation of UBA's new, 600-page export Fracking II report in Berlin.

The UBA – like the BMWi and BMUB – continue to adhere to placing a ban without exception on every form of fracking in water protection areas and medicinal spring protection zones as well as other sensitive areas such as the drainage areas of lakes and river dams, nature conservation areas and Habitats Directive sites.

The UBA expert report finds that the treatment of flowback is an unresolved issue. Flowback is the water based solution that flows back to the surface during and after hydraulic fracturing. In addition to the chemicals used for fracking, this fluid contains other sometimes toxic substances from underground such as heavy metals, aromatic hydrocarbons, and even radioactive substances at some sites.

Ms Krautzberger is convinced there is "still a great need for research and development as concerns the disposal of flowback and reservoir water. So far no operator has come forth with a viable disposal scheme."

From: www.umweltbundesamt.de/en/press/pressinformation/regulate-fracking-now and www.dw.de/german-experts-warn-against-fracking/a-17822720

• Drum (20L to 199L) Recycling in Victoria

2nd July 2014: Plastic and steel drums, and flexible intermediate bulk containers (FIBCs, bulk bags, bulka bags) are all made from recyclable materials. With support from the HazWaste Fund and the Australian Packaging Covenant, Sustainable Resource Use is working to increase the diversion of these containers (between 20L and 199L) from landfill. There is a broad range of recovery option for these materials, including businesses who manage the contents of these containers and those managing the containers themselves.

Every item in your rubbish bin is costing you money for disposal. Included on page 2 of the downloadable brochure is a chart that links container materials and contents types with recovery operators around Victoria.

www.drycleanersweb.com.au/sites/default/files/user-content/documents/r06-02-a10504_communication_to_waste_generators.pdf
(2 pages)

From: www.drycleanersweb.com.au/news/drum-recycling

• Montara Oil Spill: Impact Investigation Requested

15 July 2014: A lawyer representing Indonesian and East Timorese fishermen was in Canberra pushing for a full scientific investigation into the impact of the 2009 Montara oil spill in the Timor Sea.

Considered one of Australia's worst environmental disasters, the Montara well, owned by PTTEP Australasia, spilled [millions of litres of oil](#) into the sea off the Kimberley coast, during the months it took to stop the leak.

The oil slick is understood to have never reached Australian shores, but Indonesian fishermen claim the spill [killed thousands of fish](#), polluted waters and even caused skin diseases for some people.

From: www.abc.net.au/news/2014-07-15/indonesian-fishermen-want-montara-oil-spill-investigation/5598650

- **Orica Fined for Leaks at Kooragang Island, NSW**

28 July 2014: Land and Environment Court NSW

Orica Australia Pty Ltd, pleaded guilty to nine charges under the *Protection of the Environment Operations Act 1997* which were addressed in concurrent sentence proceedings. Those charges related to seven separate pollution incidents occurring on different dates between Oct 2010 and Dec 2011. Although the proceedings were heard concurrently, it was appropriate, given the separate nature of each incident, that seven separate judgments be produced, that is, one for each discrete pollution incident. The overall fines from the 7 Judgements totalled \$768,250 plus the Prosecutor's Investigation Costs totalled \$71519.

- 1/ the escape of Nitric Acid following the failure of a pipe in the Air Lift at one of the nitric acid plants on the Kooragang Island Licensed Premises ("KI premises"), which occurred on 19 Oct 2010.
- 2/ the release of a visible white plume of Ammonium Nitrate into the atmosphere, resulting from the failure of a pneumatic control valve at the Ammonium Nitrate plant at the KI premises, which occurred on 22 March 2011.
- 3/ the emission of Ammonia into the atmosphere due to the rupture by a worker with a jackhammer of a pipe containing Ammonia at the Ammonia Plant at the KI premises, which occurred on 17 June 2011.
- 4/ the release of condensate containing the chemical Hexavalent Chromium during start up procedures at the Ammonia Plant at the KI premises, which occurred on 8 Aug 2011.
- 5/ the release into the environment of Mercury vapours when louvres were left open at the Former ChlorAlkali Plant Mercury Remediation Project at Botany Industrial Park, which occurred on 27 Sept 2011.
- 6/ the release of Ammonia into the atmosphere on six occasions over the course of one day on 9 Nov 2011 at the KI premises.
- 7/ the overflow beyond containment systems of weak Ammonium Nitrate solution at the KI premises, which occurred on 7 Dec 2011.

The summary above of the 7 incidents is included in 1/:

From:

- 1/ www.caselaw.nsw.gov.au/action/pjudg?jgmid=172884
- 2/ www.caselaw.nsw.gov.au/action/pjudg?jgmid=172885
- 3/ www.caselaw.nsw.gov.au/action/pjudg?jgmid=172886
- 4/ www.caselaw.nsw.gov.au/action/pjudg?jgmid=172887
- 5/ www.caselaw.nsw.gov.au/action/pjudg?jgmid=172904
- 6/ www.caselaw.nsw.gov.au/action/pjudg?jgmid=172892
- 7/ www.caselaw.nsw.gov.au/action/pjudg?jgmid=172903

NSW EPA Media Release 29 July 2014 details the projects to be funded by the penalties.

The Hunter River Health Monitoring Program:

The Lower Hunter Particle Characterisation Study:

The Stockton Cycleway Revegetation Works:

The Restoration of Kooragang Dykes – Stage 2:

The Tomago Wetland Rehabilitation Project – Stage 3:

The Pitt Street Reserve Public Domain Enhancement:

The Bush Regeneration Project for Sir Joseph Banks Reserve

www.epa.nsw.gov.au/epamedia/EPAMedia14072901.htm

- **Orica Ordered to Clean up Arsenic in Groundwater**

5 Aug 2014: The NSW EPA has ordered Orica Pty Ltd to take the next step in the clean-up of Arsenic contaminated groundwater at the company's Kooragang Island site.

The groundwater beneath Orica's Kooragang Island site is significantly contaminated with Arsenic which was historically used in ammonia production. Orica dealt with the principal source of Arsenic contamination in 2005 shortly after it took control of the site.

Orica is required to implement works to prevent further migration of contaminated groundwater off the site. The order also requires community consultation, groundwater monitoring, an updated environmental management plan and an independent validation report on implementation of the remediation technology. The approved remediation approach must be completed by the end of 2017.

www.epa.nsw.gov.au/epamedia/EPAMedia14080501.htm

- **Causmag Ore: Dust Emissions Penalty Notice**

7 Aug 2014:

The NSW EPA has issued a Penalty Notice to Causmag Ore Company Pty Ltd for dust emissions from its Magnesium Oxide production factory in Young on 17 April 2014.

Causmag Ore had an incident at the factory where an air compressor failed resulting in dust control equipment not functioning correctly. This failure caused excessive white dust, containing Magnesium Oxide, to be emitted from the factory and deposited on

private properties surrounding the factory at Park Ave in Young. The NSW EPA said that the short duration of the incident meant that any associated health impacts was extremely unlikely.

From: www.epa.nsw.gov.au/epamedia/EPAMedia14080703.htm

Standards & Codes

• Stds – www.saiglobal.com/shop

AS/NZS 1336:2014 Eye and Face Protection – Guidelines. Published 27 June 2014, 35 pages, pdf (copy & paste) \$172.07, hardcopy \$123.35.

AS/NZS 4024.1302:2014 Safety of Machinery - Risk Assessment - Reduction of Risks to Health from Hazardous Substances Emitted by Machinery - Principles and specifications for machinery manufacturers. Published 30 June 2014, 12 pages, pdf (copy & paste) \$101.28, hardcopy \$72.60.

ISO 16000-32:2014 Indoor Air - Part 32: Investigation of Buildings for the Occurrence of Pollutants.

Published: 14 July 2014, 18 pages, pdf (personal use) \$115.12, hardcopy \$127.91.

ASTM E1618-14 Standard Test Method for Ignitable Liquid Residues in Extracts from Fire Debris Samples by Gas Chromatography-Mass Spectrometry. Suitable for all samples, it is especially appropriate for extracts that contain high background levels of substrate materials or pyrolysis and combustion products. This test method is also suitable for the identification of single compounds, simple mixtures, or non-petroleum based ignitable liquids. Published: 1 July 2014, 15 pages, pdf (personal use) \$60.25, hardcopy \$60.25.

BS EN 1127-2:2014 Explosive Atmospheres - Explosion Prevention and Protection - Part 2: Basic Concepts and Methodology for Mining. Published: 30 June 2014, 38 pages, pdf (personal use) \$310.10, hardcopy \$184.12.

DIN EN 16522 (2014-07) Tanks for Transport of Dangerous Goods - Service Equipment for Tanks - Flame Arresters for Breather Devices. Published: 1 July 2014, 9 pages, pdf (personal use) \$86.93, hardcopy \$96.58..

• Drafts – www.saiglobal.com/shop

<https://www.hubstandards.org.au/hub/public/listOpenCommentingPublication.action>

Note: Comment must be via Hub, any emails or forms sent to Standards Australia by fax or mail will not be considered by the Committee when it reviews the Public Comment received.

14/30300969 DC BS En 16760 - Bio-Based Products - Life Cycle Assessment. Published: 23 June 2014, 34 pages, pdf (personal use) \$36.92, hardcopy \$21.92.

• NFPA News (Codes Newsletter)

NFPA 33: Standard for Spray Application Using Flammable or Combustible Materials, [next edition due in 2015](#).

NFPA 45: Standard on Fire Protection for Laboratories Using Chemicals, [next edition due in 2015](#).

NFPA 329: Recommended Practice for Handling Releases of Flammable & Combustible Liquids & Gases, [next edition due in 2015](#).

NFPA 400: Hazardous Materials Code, [next edition due in 2016](#).

The list of NFPA documents open for public comment are at:

www.nfpa.org/aboutthecodes/list_of_codes_and_standards.asp?list=publicinput plus checking the latest NFPA News. As part of its commitment to enhancing public safety, NFPA makes its codes & standards available for free online.

Newsletter: www.nfpa.org/codes-and-standards/nfpa-news

• NPFA Journal July / August 2014

Interior Finishes: Interior finishes have contributed to some of the deadliest assembly occupancy fires on record, and new building products continue to raise concerns for fire and life safety officials.

From: www.nfpa.org/newsandpublications/nfpa-journal/2014/july-august-2014

Seminars, Conferences, Courses

• Chemical Liability Issues, 1 Sept, Melb

Organised by the RACI HS&E Group in conjunction with the Risk Engineering Society. Cost: Non RACI Member \$80, RACI /EngAust Member \$55, RES Member \$25, Non-member Students \$30.

4pm for 4.30pm - 8.45pm with seven speakers. Location: Engineering House, 21 Bedford Street, North Melbourne, VIC.

From: www.raci.org.au/events

• Chemical Hazard Communication Network, 3 Sept

The CHCN will next met in Melbourne on Wed 3rd Sept 2014, at Noel Arnold & Associates, at their East Kew meeting rooms, to discuss Classification, SDS and Labelling issues.

Please email your interest in attending this 3rd Sept meeting or organizing a CHCN meeting in another State to: Richard.Greenwood@greencap.com.au and Jeff.Simpson@haztech.com.au.

- **ChemicalWatch Regulatory Summit: Asia, 3 Sept**

3 Sept 2014, Singapore: Covers guidance surrounding the emerging chemical regulatory challenges across China, Taiwan, Korea, Malaysia, Singapore and Japan together with India, the U.S. and the EU. Cost: US\$800 by 31 July.

From: <http://chemicalwatch.com/regulatory-summit-asia>

- **Contaminated Site Assessment, Remediation, Mgmt**

Risk Based Site Assessment: 10-12 Sept 2014, Sydney.

Remediation Principles & Closure: 5-7 Nov 2014, Sydney.

University of Technology Sydney, Ultimo. Cost \$1400 each. From: <http://www.science.uts.edu.au/courses/csarm.html>

- **Airborne Engineered Nanomaterials: Eval'n & Control**

Presenters: Dr Howard Morris, Safe Work Australia.

Peter McGarry, Manager of the WHSQ Asbestos Unit.

Perth 10 Sept, Brisbane 16 Sept, Sydney 18 Sept, Melbourne 22 Sept, Adelaide 23 Sept. Non Member Fee: AU\$396

From: <http://aioh.cvent.com/events/aioh-2014-seminar-series-nanotechnology/event-summary-10adb53e85e44cb38557f0480bd0d41d.aspx>

- **SETAC Asia Pacific 14-17 Sept, Adelaide**

Advancing Science for a Sustainable Environment by the Society for Environmental Toxicology and Chemistry.

Registration \$970 (early bird to 21 July)

Themes: www.setac2014.com.au/themes.html

- **PACIA National Conference 16-18 Sept 2014 Melb**

The Conference theme "Manufacturing our Future" highlights the Australian chemistry industry as a catalyst for innovation, productivity & growth throughout the Australian economy. The PACIA Conference is aimed at Chief Executives & Senior Managers of Chemicals & Plastics companies. Held at the Langham Hotel, Southgate. [Click to Register On-line](#).

From: <http://pacia.org.au/events/nationalconference>

- **Chemeca 2014, 28 Sept-1 Oct, Perth**

Platform for chemical engineers and industrial chemists to share their latest research and to highlight new technologies.

[Tech Program](#) (5 page). [Flyer](#) (2 page). Non Member \$1450. From: www.icheme.org/chemeca2014.

- **Australian Chemical Industry Virtual Seminar
Thurs 2nd Oct 2014, 2pm Video**

Australian Chemical Industry: Driving Work Health and Safety Leadership and Supply Chain Collaboration.

Speakers: Australian Chamber of Commerce and Industry and the Plastics and Chemicals Industries Association

Part of the Australian Strategy Virtual Seminar Series (VSS). These are **free** online events run throughout [Safe Work Australia Month in October 2014](#).

Draft Program: www.safeworkaustralia.gov.au/sites/SWA/australian-strategy/vss/Documents/VSS-Draft-Program.pdf

From: www.safeworkaustralia.gov.au/sites/swa/australian-strategy/vss/pages/vss

- **Nanochemistry for Life Symposium - 3 Oct 2014**

University of South Australia, Adelaide. Presented by the RACI Division of Interfaces, Colloids, and Nanomaterials.

[Event Flyer](#). 9-5pm. Non-Members Cost \$65. [Register](#).

From: www.raci.org.au/events/event/nanochemistry-for-life-symposium

- **ACTRA 7th Scientific Meeting: 8-10 Oct 2014**

Conference Themes: • Risk Perception and Risk Communication, • Air Pollution, • Nanoscience

Flyer: www.actra.org.au/files/7th%20ASM_Save_The_Date.pdf. More information: secretariat@actra.org.au

At Crowne Plaza, Coogee Beach Sydney NSW, \$650.

One Day Workshop: "Advances to Alternative Methods for Toxicology in Chemical Health Risk Assessment", \$470.

From: www.actra.org.au/news.html

• Fundamentals of Process Safety, 13-17 Oct 2014

Melbourne, 13-17 Oct 2013. Develop or improve knowledge of process safety, hazards, risk & their management.

Cost: Non-Members \$3990, IChemE Members \$3465.

Email: austcourses@icheme.org, ph: 03-9642-4494

[Download the course flyer](#)

From: <https://www.icheme.org/shop/events.aspx> and search on "Fundamentals of Process Safety"

• Chemical Regulations in China, Korea & Japan

(SMCR 2014) 4th Summit Meeting on Chemical Regul'ns, will take place on 15-16 Oct 2014 in Shanghai and focus on chemical regulations and chemical safety management in Asia Pacific. The presentations are in English.

Cost USA\$520 by 1st Oct.

For information contact: Ms. Yixin.Zhang@circs-reach.com, Hangzhou, China, ph: +86-571-8720-6574

From: <http://smcr.cirs-group.com/2014/en/>

• HAZOP Study for Teams – Perth, 21-23 Oct 14

An integrated IChemE course provides effective HAZOP training for both team leaders and team members. Presentations cover all essential aspects of the method, plus there are workshops on HAZOP's for continuous processes, sequential operations, & computer controlled plant. \$3990.

Phone: 03-9642-4494; Email: austcourses@icheme.org. From: www.icheme.org/hazopperth

• ChemCon: The Americas, 2014, 28-30 Oct

Chicago: Will focus in the field of international chemical legislation all over the world, like REACH, GHS and country specific information on inventories, labelling requirements, etc. From: http://chemcon.net/upcoming_americas.shtml

• Ecoforum Conference, 29-31 Oct 2014, Gold Coast

16 Proposed Session Themes: www.ecoforum.net.au/pdfs/Ecoforum%202014%20Session%20Themes.pdf.

Cost \$1080 by 31 Aug 2014. From: www.ecoforum.net.au/

• Lab Management Conference 11-12 Nov 14, Sydney

This conference will introduce you to new ways of thinking and give you the opportunity to hear what other laboratories have done to increase their efficiency, productivity and visibility.

Optional **Workshops** on 10 Nov 14 e.g. including: **Workplace Safety - Never Compromise. 2 Lab Tours** on 10 Nov 14.

[Brochure and Registration](#): Non-members: \$1180 Early Bird, After 10 Oct \$1395. Each Workshop: \$735 Early Bird, After 10 Oct \$850. Lab Tours – no charge

From: www.labmanagers.org.au/

• Chemical Engineering for Non-Chemical Engineers

Melbourne, 18-20 Nov 2013. An introduction to some of the main subject areas involved in chemical engineering disciplines, to broaden the technology base of participants, with a view to promote improved communication with chemical engineers.

Cost: Non-Members \$2940, IChemE Members \$2415.

Email: austcourses@icheme.org, ph: 03-9642-4494

[Download the course flyer](#)

From: <https://www.icheme.org/shop/events.aspx> and search on "Chemical Engineering for Non-Chemical Engineers"

• AIOH 2014 Melbourne, 29th Nov-3rd Dec 2014

The Theme is "Exploring the Boundaries". Plus ½ and full day workshops on the Saturday and Sunday before.

From: www.cvent.com/events/aioh2014c-exploring-the-boundaries/event-summary-1d87a272f9db4a108b851e6e0528aab4.aspx

• RACI National Congress 7-12 Dec 2014, Adelaide

This Congress will emphasise the cross disciplinary nature of chemistry and many of the symposia will explore exciting new areas of chemistry, discuss upcoming challenges to the industry, explore the boundaries of the traditional types of chemistry and examine future trends in chemistry and the related sciences.

One of the Symposiums will be "Chemical Health and Safety: covering a/ Remediation; b/ OHS Practices; c/ Chemical Laboratory Safety, and d/ Handling of Hazardous Chemicals.

Non Member Full Registration: \$1404 + \$50 Congress Dinner.

From: www.raci.org.au/events-awards/raci-national-congress-2014 and www.racicongress.com/

Haztech Environmental: Chemical Hazard Classifications done & reviewed. SDSs prepared & reviewed. Labels prepared & reviewed. Chemical Control & Safety Regulatory Compliance: checked for NICNAS, TGA, FSANZ, TGA; prepared & reviewed for Dangerous Goods & Combustible Liquids, Workplace Hazardous Chemicals / Hazardous Substances, Environmentally Hazardous Substances, Scheduled Poisons, and other Chemical and Physical Hazards.

I can come and work in your office, which provides better access to data with improved security, plus good technical contact with relevant personnel. This allows the work to be done more quickly and comprehensively. *I also work from my home office*, in Ashburton, Victoria, where I maintain an extensive reference library, developed over 23 years whilst preparing these Notes.

Contact: Jeff Simpson, Hazardous Materials & Regulatory Affairs Consultant, Haztech Environmental, 18 Laurel St, Ashburton 3147, Australia, 61-(0)3-9885-1269, 61-(0)403-072-092, Jeff.Simpson@haztech.com.au

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