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## • Draft Aust. Dangerous Goods Code

I am reasonably reliably informed that the Draft 7<sup>th</sup> Editon of the ADG Code and Regulations will be available on the 6<sup>th</sup> July and probably be open for comment for 2 months.

The National Transport Commission (NTC) will be presenting an information seminar in all capital cities in the 4 weeks after its release.

*The Draft will become available to download from the NTC's website: [www.ntc.gov.au](http://www.ntc.gov.au) then on the left side select "Dangerous Goods". Also from: [www.dotars.gov.au/transreg/dgoods.aspx](http://www.dotars.gov.au/transreg/dgoods.aspx).*

*Editor's Comment: John Borig from Noel Arnold & Associates is intending to follow the NTC information seminars with further workshops. Contact Noel Arnold & Associates ph: 03-9890-8811, email: [john.borig@noel-arnold.com.au](mailto:john.borig@noel-arnold.com.au), website: [www.noel-arnold.com.au](http://www.noel-arnold.com.au)*

## Hazmat & Environment Notes are prepared by:

Jeff Simpson

Hazardous Materials Consultant  
Editor & Publisher

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

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

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

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

Screen

ISSN: 1441-5534

## Hazardous Substances

### • Asbestos Codes of Practice & Guidance Note

27 April 2005: The National Occupational Health and Safety Commission (NOHSC) has declared a revised Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC: 2002 (2005)] and a new Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC:2018 (2005)].

Asbestos is known to cause cancer in humans and inhalation of asbestos fibres can cause asbestosis, lung cancer and mesothelioma.

The asbestos codes aim to prevent workplace exposure to airborne asbestos fibres and reduce the incidence of asbestos-related disease through safe management, control and removal of asbestos, and to increase consistency of state and territory regulatory frameworks for asbestos. The ultimate goal of the new codes of practice is for all workplaces to become free of asbestos.

Download copies from: New "Publications" area of [www.nohsc.gov.au/OHSInformation/NOHSCPublications/](http://www.nohsc.gov.au/OHSInformation/NOHSCPublications/)

From [www.nohsc.gov.au](http://www.nohsc.gov.au) Media Release, 27<sup>th</sup> April 05

### • Asbestos Warning for Community Groups, Charities and Volunteers

"In February 2005 a Uniting Church Welfare organisation based at Sale was convicted and fined \$5000 and ordered to pay WorkSafe's costs of \$2960." "Volunteer workers, including children, were exposed to asbestos during renovation works."

"Magistrate Hill said the dangers of asbestos were well-known and that care should have been taken to ensure the potential presence of asbestos was recognised."

"WorkSafe's Executive Director, John Merritt warned business and community organisations to be aware of the risks when working with asbestos."

From: [www.worksafe.vic.gov.au/dir090/vwa/media.nsf/docsbyUNID/2CF2ED9CA0FC3196CA256FA90027D59F?Open](http://www.worksafe.vic.gov.au/dir090/vwa/media.nsf/docsbyUNID/2CF2ED9CA0FC3196CA256FA90027D59F?Open)

### • Toxicology of Chemical Mixtures - Project

Project- Current 2005: The estimation of toxicological risks from chemical mixtures is very complex and can be inaccurate. The only effective means of determining the risks of mixtures is by direct toxicity testing. The Chemical Safety and Applied Toxicology (CSAT) Laboratories at The University of New South Wales have been developing *in vitro* toxicity tests using human cell lines to enable the toxicity ranking of chemical mixtures.

Researcher: Dr Amanda Hayes, University of New South Wales, School of Safety Science, Chemical Safety and Applied Toxicology (CSAT) Laboratories, ph: 02-9385-4200, email: a.hayes@unsw.edu.au

Modified from the Australian Occupational Health & Safety Research Database at [www.nohsc.gov.au/applications/researchDB/mb.aspx](http://www.nohsc.gov.au/applications/researchDB/mb.aspx) and selecting "Toxicology" then "Toxicity Testing".

### • Dust Explosion Alert in Rotational Moulding

A Worksafe Victoria Alert 2<sup>nd</sup> June 2005, to take specified action to prevent fires and explosions from Polyethylene powder occurring during moulding operations. Recently, an explosion occurred inside a mould which had been filled with Polyethylene powder and placed in a gas fired oven. The investigation indicates that this was a "primary" dust explosion, the combustible dust being the Polyethylene powder routinely used in this process.

Control measures should include:

- conduct a pre-rotational inspection to check each assembled mould does not leak
- check for dust and clean oven/moulding area surfaces
- use an appropriate breather (pressure relief) tube fitted with a non-combustible porous filter; i.e. use fibreglass or similar. Steel wool must NOT be used.

From: [www.worksafe.vic.gov.au/vwa/alerts.nsf/\(docsbyUNID\)/C7D02FE7BD425FDBCA257012007CDEAD?Open](http://www.worksafe.vic.gov.au/vwa/alerts.nsf/(docsbyUNID)/C7D02FE7BD425FDBCA257012007CDEAD?Open)

### • UNEP Screening Information Data Sets For High Volume Chemicals

This United Nations Environment Program (UNEP) information is provided as an indication of the current state of knowledge of these chemicals based on the Screening Information Data Sets (SIDS), but does not presume to be comprehensive.

A total of 62 chemicals have been added to the SIDS in March and May 2005.

The SIDS information is best accessed from the <http://www.inchem.org/> website where a series of Intergovernmental databases on chemical safety can be searched across or individually accessed.

IPCS INCHEM is a tool for those concerned with chemical safety and the sound management of chemicals which is produced through cooperation between the International Programme on Chemical Safety (IPCS) and the Canadian Centre for Occupational Health and Safety (CCOHS).

From [www.inchem.org](http://www.inchem.org) & [www.chem.unep.ch/irptc/sids/OECD/SIDS/sidspub.html](http://www.chem.unep.ch/irptc/sids/OECD/SIDS/sidspub.html)

## Chemical Management

- **Nanotechnology: Enabling Technologies For Australian Innovative Industries**

This report was presented at the 13th meeting (11 March 2005) of the Prime Minister's Science, Engineering and Innovation Council (PMSEIC). It highlights the need for a National Nanotechnology Strategy coordinated across all levels of government, to inform the public debate on social, health and environmental issues, and to provide an appropriate regulatory framework. The 41 page report can be downloaded from the website below.

From: [http://www.dest.gov.au/sectors/science\\_innovation/publications\\_resources/profiles/nanotechnology\\_enabling\\_innovative\\_industries.htm](http://www.dest.gov.au/sectors/science_innovation/publications_resources/profiles/nanotechnology_enabling_innovative_industries.htm)

- **Dangerous Goods & Hazardous Substances - Combined Storage / Handling / Use Code**

Barry Pratt has been recently seconded (in May 2005) from Worksafe Victoria to the ASSC (formerly NOHSC) to draft a joint Code of Practice to cover the Storage, Handling and Use of Dangerous Goods and Workplace Hazardous Substances. This is part of the GHS preparation.

Barry is meeting with various specialists groups to gain a perspective on how this is seen as best achieved whilst ensuring the various risks are properly understood and addressed. Concern has been raised that the various scenarios require quite different risk assessments with quite different specialist knowledge needed.

It was noted at the Dangerous Goods Advisory Group meeting in early June that this is also the opportunity to emphasize these differences which are not currently well understood by many persons.

Contact details: [Barry.Pratt@workcover.vic.gov.au](mailto:Barry.Pratt@workcover.vic.gov.au)

## NICNAS (Industrial Chemicals)

- **Triclosan PEC Assessment Update**

The National Industrial Chemicals Notification and Assessment Scheme (NICNAS) has commissioned the National Centre for Environmental Toxicology, at the University of Queensland, to undertake a project, for the NICNAS Priority Existing Chemical (PEC) assessment, to determine Triclosan in national breast milk samples collected in 2002 and 2003. This data will supplement a study from Sweden that reported Triclosan in three out of five randomly selected human breast milk samples in Stockholm.

The levels in these samples will be compared with "historical" samples collected in 1993. It is anticipated that the project will be completed by September 2005., and will provide key data to the NICNAS PEC evaluate the potential for Triclosan to bioaccumulate in humans.

For information contact Paul Harvey ph: 02-8577-8892 or email [paul.harvey@nicnas.gov.au](mailto:paul.harvey@nicnas.gov.au)

From [www.nicnas.gov.au](http://www.nicnas.gov.au) Update on Triclosan PEC

- **Cosmetics/Therapeutic Goods Interface Review**

This **Draft** Review of the Regulation of Products at the Interface Between Cosmetics and Therapeutic Goods was released on 18 March 2005. This 100 page report is downloadable from the NICNAS website at [www.nicnas.gov.au](http://www.nicnas.gov.au)

The purpose of this draft Report is to consider the controls appropriate to a range of external use products that might be regarded as being of low risk and which share characteristics of both cosmetics (or toiletries) and therapeutic products. Comment was sought.

Low risk alone does not make something a candidate for classification as a cosmetic if its purposes are mainly and generally for therapeutic use.

The *Therapeutic Goods Act* 1989 (Aust) provides a tier of controls within its framework to accommodate the products captured by the definitions of "therapeutic use" and these are generally risk-based. The *Medicines Act* 1981 (NZ) creates a class called "Related products" that covers a number of products having characteristics of both cosmetics and medicines.

The relevant parts of the Australian and New Zealand Acts are considered in detail because of the signing of a treaty between the governments of both countries to create a joint agency to regulate therapeutic products. Key definitions are included as an appendix and each of the classes of goods is then considered.

Gives a good idea of what should be or should not be considered as cosmetics or therapeutic products and the reasons why.

Comment closed on the 20<sup>th</sup> May 2005. NICNAS will conduct information sessions for the cosmetics industry and the community which will cover products proposed for regulation as cosmetics and will be held once the Report is finalised in a few months time. For information email: [cosmetic\\_review@nicnas.gov.au](mailto:cosmetic_review@nicnas.gov.au).

From *Cosmetics Review Draft Report* at [www.nicnas.gov.au](http://www.nicnas.gov.au)

## • Handbook for Notifiers – Updated for LRCC Changes

The *Handbook for Notifiers* has been updated on the NICNAS website to reflect the new changes following the introduction of the Industrial Chemicals (Notification and Assessment) Amendment (Low Regulatory Concern Chemicals ) Act 2004 (LRCC Amendment Act). Also Includes changes to the AICS forms (24 March 2005).

The Handbook for Notifiers can be found at [www.nicnas.gov.au/publications/handbook](http://www.nicnas.gov.au/publications/handbook)

## • Controlled Use Permits: Chemicals For Export Only

The NICNAS Final Report and Recommendation for the Controlled Use Permit system, advises how introducers of new industrial chemicals for use in a highly controlled manner may be granted a permit. Introduction must be of low risk to workers, the public and the environment and safeguards are built into the permit system.

Export Only Scenarios are:

- importation or manufacture of a new chemical into Australia for export of entire quantity;
- importation or manufacture of a new chemical into Australia for use in formulation of products for export of entire quantity;

For information contact Diver ph: 02-8577-8862, email: [bill.diver@nicnas.gov.au](mailto:bill.diver@nicnas.gov.au); or Bob Graf ph: 02-8577-8850, email: [bob.graf@nicnas.gov.au](mailto:bob.graf@nicnas.gov.au).

*From NICNAS 3 May 05 Chemical Gazette*

## • Call for Information on 39 Chemicals

There are 39 chemicals being considered in terms of the adequacy of control measures for their industrial and/or domestic uses. The specific information sought on the chemicals is:

**a/** quantities of each chemical imported into and/or manufactured in Australia from 1 January 2004 to 31 December 2004; **b/** if available, quantities of each chemical imported into and/or manufactured in Australia from 1 January 2005 to 30 April 2005; and **c/** uses of the chemicals, including industrial and domestic applications.

Information is being sought on “discrete” chemicals and not products or mixtures containing the 39 chemicals.

Some of the chemicals are already subject to import control under the Customs (Prohibited Imports) Regulations and current importing persons may be contacted by NICNAS to provide additional information.

The other currently uncontrolled chemicals on the List are:

Name:	CAS Number	Name:	CAS Number
Acetic Anhydride	108-24-7	Benzaldehyde	100-52-7
2-Phenylacetamide (Not-On-AICS)	103-81-1	2-Phenylacetone	140-29-4
2-Phenylacetyl Chloride (Not-On-AICS)	103-80-0	1-Phenyl-2-Chloropropane (Not On AICS)	10304-81-1
1-Phenyl-2-Propanol	698-87-3	1-Phenyl-2-Nitropropene (Not On AICS)	705-60-2
2-Propenylbenzene	300-57-2	Piperonylacetid Acid (Not On AICS)	2861-28-1
1-Chloro-1-Phenyl-2-Aminopropane (Not AICS)	20461-34-1	Nitroethane	79-24-3
Hydriodic Acid	10034-85-2	Hydrobromic Acid	10035-10-6
Iodine	7553-56-2	Methylamine	74-89-5
3,4-Methylenedioxyphenyl-2-Bromopropane (Not On AICS)		<i>trans</i> - $\beta$ -Methylstyrene (Not On AICS)	873-66-5
Camphor Oil (Not On AICS)	8008-51-7	Phosphorus	7723-14-0
Potassium Bromide	7758-02-3	Potassium Iodide	7681-11-0
Sodium Bromide	7647-15-6	Sodium Iodide	7681-82-5
Thionyl Chloride	7719-09-7		

Closing date for the provision of information is **20 July 2005**.

For further information contact Ms Lorma Gutierrez ph: 02-8577-8863, email: [Lorma.Gutierrez@nicnas.gov.au](mailto:Lorma.Gutierrez@nicnas.gov.au).

*From NICNAS Chemical Gazette, 7 June 2005*

## • Declaration of 3 Brominated Flame Retardants as Priority Existing Chemicals

### 1/ Decabromodiphenyl Ether (DBDPE) (CAS 1163-19-5)

DBDPE is used in fire retardant polymers/resins for wire insulations, plastic boxes housing electronics and in electrical equipment such as TVs and set top boxes. This chemical is also used in textiles such as curtains, awnings, and fabrics for motor vehicles.

In animal studies, DBDPE caused liver degeneration and fibrosis of spleen in rats, and liver hypertrophy and follicular cell hyperplasia in mice. There is also evidence that exposure of DBDPE at a critical phase of neonatal brain development causes neurobehavioral changes in mice. There are concerns that DBDPE will photodegrade to lower brominated diphenyl ether congeners that are hazardous to human health and /or the environment. Some lower brominated diphenyl ether congeners are known to bioaccumulate and cause developmental toxicity in animals.

## 2/ Hexabromocyclododecane (HBCD) (CAS 25637-99-4 & 3194-55-6)

HBCD is used as a flame retardant in polystyrene foam and in polystyrene beads used in insulation of articles such as baby car seats. In addition, HBCD is used in canvas products for industrial and domestic use.

Oral exposure to HBCD resulted in an increase in liver weights and thyroid related hyperplasia in rats. Its potential for sensitisation in guinea pigs remains to be clarified as conflicting findings have been reported. Although a long-term study found no evidence of carcinogenicity in mice fed with HBCD the results of the study have been questioned. The persistence of this partially brominated substance, and of its breakdown products, is also unclear.

## 3/ Tetrabromobisphenol A (TBBPA), (CAS 79-94-7)

TBBPA is used in polymer resins, components of switchboards and in textiles.

TBBPA is moderately to highly toxic to aquatic invertebrates based on testing in daphnids, mysid shrimp and eastern oysters. TBBPA is also highly toxic to marine algae. This chemical can be considered to be potentially persistent or very persistent based on its ultimate mineralisation. TBBPA has been shown to break down in marine sediments to a chemical (bisphenol-A) that is known to be toxic and causes effects on the endocrine system.

**Actions Required:** All those who wish to manufacture or import any or all of these brominated flame retardants during the period that it is a PEC **must apply** in writing using the PEC application form.

Importers of products/mixtures containing any or all of these brominated flame retardants must also apply for assessment. There are no application fees. However, there is a penalty for manufacturing or importing a PEC without first applying for assessment of the chemical.

Applications are required **by 5 July 2005**.

Information provision is required by **26 August 2005**.

**Contact Officer:** Dr Janith Wickramaratna ph: 02-8577-8846, email: [janith.wickramaratna@nicnas.gov.au](mailto:janith.wickramaratna@nicnas.gov.au). For information contact Dr Sneha Satya ph: 02-8577-8880, email: [sneha.satya@nicnas.gov.au](mailto:sneha.satya@nicnas.gov.au)

*From NICNAS Chemical Gazette, 7 June 2005*

## • Confidential Listing of Chemicals on AICS

Revised guidelines (Jan 2005) for establishing a case for confidential listing of chemicals on AICS are now available.

[www.nicnas.gov.au/obligations/pdf/aics-guidelines2005.pdf](http://www.nicnas.gov.au/obligations/pdf/aics-guidelines2005.pdf)

## Agricultural & Veterinary Chemicals

### • Copper Chrome Arsenate & Arsenic Trioxide Labels

#### Reconsideration of Registrations and Label Approvals Related to Arsenic Timber Treatment Products (Copper Chrome Arsenate and Arsenic Trioxide)

The APVMA has varied the labels such that they contain instructions that: **a/** require timber treatment facilities be designed and operated to meet appropriate Australian Standards; **b/** prohibit the use of CCA on timber intended for structures such as garden furniture, picnic tables, exterior seating, children's play equipment, patio and domestic decking and handrails; **c/** detail the permitted uses for CCA products; **d/** require that timber treated with CCA be marked and branded with the statement: TREATED WITH COPPER CHROME ARSENATE; and **e/** include more detailed instructions for application, mixing and vacuum/pressure operations, management of freshly treated timber, management of liquids, sludge or waste material containing CCA residues, protection of wildlife, fish crustaceans and the environment, storage and disposal.

*From: [www.apvma.gov.au/gazette/gazette0504p35.shtml](http://www.apvma.gov.au/gazette/gazette0504p35.shtml)*

### • Methiocarb Review- Preliminary Findings

#### Preliminary Review Findings of the Review of Approvals and Registrations Related to Methiocarb

A carbamate pesticide that has been registered for use in Australia for over 20 years. Similar to other carbamate pesticides, Methiocarb kills insects by interfering with the activity of an enzyme (acetylcholinesterase) in the nervous system. Methiocarb is highly toxic to humans and animals. Poisoning can occur by oral ingestion (swallowing) or by inhaling (breathing) the spray or dust.

Used for the control of snails, slugs, wireworm and birds in a range of agricultural and domestic situations. Major agricultural uses include grapevines, citrus, berries, pastures, cereals, and ornamentals.

The APVMA has found that the major concerns with this chemical relate to OH&S of workers exposed to baits and spray solutions containing Methiocarb, environmental exposure as a result of inadequate label directions, and health concerns (dietary) as a result of residues in food.

The APVMA is proposing to: **a/** Delete all uses on food crops & on pastures; **b/** Delete soil drench uses in ornamentals; **c/** Replace existing environmental protection and cautionary statements; **d/** Replace Safety Directions; & Add Re-entry statements.

Details can be found in the APVMA [Preliminary Review Findings](#) report. Comment: [chemrev@apvma.gov.au](mailto:chemrev@apvma.gov.au)

*From: [www.apvma.gov.au/gazette/gazette0505p25.shtml](http://www.apvma.gov.au/gazette/gazette0505p25.shtml)*

## • New Ag&Vet Active Constituents (6)

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

### 1/ Potassium Sorbate

Acts as a mould inhibitor, and is proposed for use in a timber treatment product. CAS No: 24634-61-5.

From: [www.apvma.gov.au/gazette/gazette0504p14.pdf](http://www.apvma.gov.au/gazette/gazette0504p14.pdf)

### 2/ Forchlorfenuron

A phenylurea plant growth regulator. The active is to be used for increasing the berry size in table grapes. CAS No: 68157-60-8. Considered not to require Control by Scheduling (Appendix B SUSDP).

From: [www.apvma.gov.au/gazette/gazette0504p16.pdf](http://www.apvma.gov.au/gazette/gazette0504p16.pdf)

### 3/ Diphacinone

Diphacinone belongs to the indandione family of rodenticides. The active is to be used in rodenticide products for the control of mice and rats. CAS No: 82-66-6. Schedule 6 in the SUSDP.

From: [www.apvma.gov.au/gazette/gazette0504p18.pdf](http://www.apvma.gov.au/gazette/gazette0504p18.pdf)

### 4/ Cyhalofop-Butyl

An acetyl coenzyme-A carboxylase inhibitor blocking fatty acid biosynthesis and causing the loss of lipids resulting in the death of dividing cells in the growing tip of the grass. CAS No: 122008-85-9. Schedule 5 in the SUSDP.

From: [www.apvma.gov.au/gazette/gazette0504p20.pdf](http://www.apvma.gov.au/gazette/gazette0504p20.pdf)

### 5/ Carbon Dioxide

An aerosol-type canister containing carbon dioxide that is intended for use as a rodenticide in an electronically controlled trap device for mouse control. CAS No: 124-38-9. Not Scheduled.

From: [www.apvma.gov.au/gazette/gazette0504p22.pdf](http://www.apvma.gov.au/gazette/gazette0504p22.pdf)

### 6/ Neem Seed Extract Powder

Has insecticidal properties and acts slowly and more specifically as an insect anti-feedant and growth regulator. It causes growth disruption due to interference with insect hormone production. The major isomer in the mixture is Azadirachtin-A (CAS No: 11141-17-6. Scheduling: Azadirachta Indica Extracts (Neem, its Extracts and Derivatives) are included in S6 and S5 of the SUSDP.

From: [www.apvma.gov.au/gazette/gazette0505p13.pdf](http://www.apvma.gov.au/gazette/gazette0505p13.pdf)

## • APVMA E-Newsletter, 29<sup>th</sup> April 2005 - 2/05

Two items that caught my attention are:

- Project to develop a regulatory map for products marketed for pool and spa sanitation. Contact Dr Eva Bennet-Jenkins, Pesticides Program, ph: 02- 6272-3195.
- Pesticide & Veterinary Reviews Status Tables

You can find the Newsletters on the website at

[www.apvma.gov.au/publications/enewsletter\\_home.shtml](http://www.apvma.gov.au/publications/enewsletter_home.shtml)

You can subscribe to the Newsletter through the website at

[www.apvma.gov.au/listserv/subscription\\_registration.shtml](http://www.apvma.gov.au/listserv/subscription_registration.shtml)

## • Community E-Bulletin Issue 5, April 2005

Two items that caught my attention are:

- Chemical Container Management – **Comment wanted.**
- APVMA Product Labelling Review – **Comment wanted.**

From: [www.apvma.gov.au/community/ccc\\_ebulletin5.shtml](http://www.apvma.gov.au/community/ccc_ebulletin5.shtml)

## Food Chemical Issues

### • D-Tagatose: A Human Risk Assessment

Technical Report No. 29: D-Tagatose (CAS No. 87-81-0) is a naturally occurring sweet-tasting monosaccharide that may be used as a sweetener in foods to replace sucrose. Produced commercially by enzymatic hydrolysis of Lactose to D-galactose, followed by chemical isomerisation under basic conditions, then purification by mineralisation, ion exchange chromatography and re-crystallisation. D-Tagatose occurs naturally in *Sterculia setigera* gum, a partially acetylated acidic polysaccharide.

In contrast to traditional sugars, it is only partially absorbed by the body resulting in reduced energy value. The major fraction of D-Tagatose reaches the large intestine unabsorbed, where it undergoes fermentation.

Based on the FSANZ Assessment, there are no public health and safety concerns associated with the use of D-Tagatose in foods at low to moderate levels of exposure, except that D-Tagatose is not considered suitable for consumption by individuals with hereditary fructose intolerance.

From: [www.foodstandards.gov.au/srcfiles/D-tagatose.doc](http://www.foodstandards.gov.au/srcfiles/D-tagatose.doc)

## Dangerous Goods

### • CHEM Services, Queensland

The Chemical Hazards and Emergency Management Services (CHEM Services) is a branch of the [Counter Disaster and Rescue Services](#) Division of the [Department of Emergency Services](#), formerly known as the CHEM Unit. The Services is divided into two team areas: [Dangerous Goods Safety Team](#); and [Major Hazards Safety Team](#).

Contact the CHEM Services on ph: 07-3247-8444, email: [chem@emergency.qld.gov.au](mailto:chem@emergency.qld.gov.au).

From: [www.emergency.qld.gov.au/chem/](http://www.emergency.qld.gov.au/chem/)

### • Chemical Notifiers Project (Vic) – Draft Tools

Draft Self-Assessment Tools to help Chemical Notifiers (with over “Manifest Quantities”) are currently being developed by Ross Bootes, Worksafe Victoria.

The self assessment tool is aimed to provide an overall framework for risk reduction. The intention is to help notifiers comply and to aid them to develop a more pro-active approach to dangerous goods and hazardous substances. Comments are sought on the style and/or usefulness of the approach until about mid June 2005.

To obtain a copy contact Ross Bootes ph: 03-9641-1582, email: [Ross\\_Bootes@workcover.vic.gov.au](mailto:Ross_Bootes@workcover.vic.gov.au)

### • Victorian Major Hazard Facilities List - 31-5-05

Download the current list of 45 approved MHFs.

From: [www.workcover.vic.gov.au/vwa/home.nsf/pages/so\\_majhaz\\_intro](http://www.workcover.vic.gov.au/vwa/home.nsf/pages/so_majhaz_intro) and go to the bottom

## Environmental Notes on Chemicals

### • Centre for Green Chemistry (CGC)

The latest Newsletter for May 2005 and the CGC Annual Report for 2004 are now available on their website: [www.chem.monash.edu.au/green-chem/](http://www.chem.monash.edu.au/green-chem/).

Under “Resources” “further reading” they refer to: **Green Chemistry An Introductory Text, ISBN: 0 85404 620 8.** RSC Publishing, cost £25, 310 pages. It is “Intended primarily for use by students and lecturers this book will also appeal to industrial chemists engineers managers or anyone wishing to know more about green chemistry.”

(From RSC Publishing website: [www.rsc.org/Publishing/Books/0854046208.asp](http://www.rsc.org/Publishing/Books/0854046208.asp)).

The CGC website also refers to 2 green chemistry textbooks under the “Schools Program” and “Teachers Resources”:

**Introduction to Green Chemistry** “for chemistry teachers in secondary schools wanting to incorporate green chemistry into their lessons.” **Note:** When you link across to the American Chemical Society website to purchase this book there is a free 30 slide Powerpoint presentation that can be downloaded (3 Mb).

**Real-World Cases in Green Chemistry**, which is “designed for undergraduate courses. It contains descriptions of ten projects that have won or been nominated for the highly coveted Presidential Green Chemistry Challenge awards. A useful reference for practical applications of green chemistry in industry. Shows how redesign of chemical processes and products is preventing pollution and solving environmental problems.”

From: [www.chem.monash.edu.au/green-chem/](http://www.chem.monash.edu.au/green-chem/)

### • Eco-Footprint for your Organisation

How sustainable is your organisation? The eco-footprint can help you assess your ecological performance and provide useful results for your managers, clients, shareholders, suppliers, community or other stakeholders.

The **Detailed Eco-footprint Calculator for Offices** (Microsoft Excel file, 2080KB) [www.epa.vic.gov.au/Eco-footprint/docs/Office\\_EF\\_2.0.xls](http://www.epa.vic.gov.au/Eco-footprint/docs/Office_EF_2.0.xls), is not a web based calculator and you will need Microsoft Excel. Before starting learn how to answer to the questions in the calculator at: [www.epa.vic.gov.au/Eco-footprint/Organisations/faq.asp](http://www.epa.vic.gov.au/Eco-footprint/Organisations/faq.asp)

From: [www.epa.vic.gov.au/Eco-footprint/Organisations/default.asp](http://www.epa.vic.gov.au/Eco-footprint/Organisations/default.asp)

- **Hazardous Waste (Regulation of Exports & Imports) Act 1989 – Updated Guide**

This 31 page updated Paper No. 4, published April 2005, replaces the first edition published in June 1998 relating to Controlled and Other Wastes under the Act. It clarifies the requirements of the Hazardous Waste (Regulation of Exports and Imports) Act 1989. This Act implements Australia's obligations under the *Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal*.

Download the updated paper from [www.deh.gov.au/industry/chemicals/hwa/pubs/paper4.pdf](http://www.deh.gov.au/industry/chemicals/hwa/pubs/paper4.pdf)

The 4 page newsletter "Hazwaste Snapshot" is now also available to be downloaded from: [www.deh.gov.au/industry/chemicals/publications/snapshot/index.html#download](http://www.deh.gov.au/industry/chemicals/publications/snapshot/index.html#download)

- **Assessment of Site Contamination NEPM-Review**

Stakeholder comments are invited on the "Issues Paper", which is to identify and discuss the key issues that are to be addressed in the Review of the Assessment of Site Contamination NEPM. 40 Issues are currently identified for discussion. Submissions by 15 July 2005.

From: [www.ephc.gov.au/nepms/cs/cs\\_review\\_2005.html](http://www.ephc.gov.au/nepms/cs/cs_review_2005.html)

- **Prescribed Industrial Waste (Vic) - Review**

The Victorian Industrial Waste Management Policy (Prescribed Industrial Waste) - Progress Review, May 2005, Publication 994, 11 pages.

1/ Industry and the community are now more aware of the management issues; 2/ Classifications have been put in place for reuse, recycling or recovered energy; 3/ Draft guidelines have been developed to ensure wastes are managed based on the hazard they pose; 4/ Standards have been set for long-term containment facilities; 5/ quantity of manufacturing waste sent to landfills has steadily decreased.

From: <http://epanote2.epa.vic.gov.au/EPA/Publications.nsf/PubDocsLU/994?OpenDocument>

- **Guidelines for Waste Hazard Classification of Solid Prescribed Industrial Wastes (Vic)**

June 2005, Publication 996, 21 pages. This guideline facilitates the implementation of improved hazard reduction techniques (including waste immobilisation processes).

From: <http://epanote2.epa.vic.gov.au/EPA/Publications.nsf/PubDocsLU/996?OpenDocument>

- **FAQ on Waste Hazard Classification (Vic)**

June 2005, Publication 997, 7 pages. An information bulletin to provide answers to some Frequently Asked Questions (FAQs) on the Guidelines for Hazard Classification of Solid Prescribed Industrial Wastes and how the Victorian EPA will implement them.

From: <http://epanote2.epa.vic.gov.au/EPA/Publications.nsf/PubDocsLU/997?OpenDocument>

- **Response to Comments on Draft Guidelines for Hazard Classification of Solid Prescribed Industrial Wastes (Vic)**

June 2005, Publication 998, 11 pages. This document summarises the feedback the Victorian EPA received and the EPA's responses to this feedback.

From: <http://epanote2.epa.vic.gov.au/EPA/Publications.nsf/PubDocsLU/998?OpenDocument>

## Standards

- **Standards – [www.standards.com.au](http://www.standards.com.au)**

**AS 2106.0-2005** Methods for the Determination of the Flash Point of Flammable Liquids (Closed Cup) – *General*, 27 Apr 05, ISBN 0-7337-6631-5 3 pages, \$21.38

AS 2106 Parts 2, 3, 4, 5, 6 cover the different methods:

Part 2 - Pensky-Martens closed cup method, 21p

Part 3 - Flash/No Flash - Rapid equil'm closed cup method, 18p

Part 4 - Flash Point - Rapid equilibrium closed cup method, 18p

Part 5 - Flash/No Flash - Closed cup equilibrium method. 9p

Part 6 - Flash Point - Closed cup equilibrium method, 11p

**AS/NZS 2161.10.1:2005:** Occupational Protective Gloves Against Chemicals and Micro-Organisms - Terminology and Performance Requirements, 7p, \$38.41

**AS/NZS 2161.10.2:2005:** Occupational Protective Gloves Against Chemicals and Micro-Organisms - Determination of Resistance to Penetration, 5p, \$38.41

**AS/NZS 2161.10.3:2005:** Occupational Protective Gloves Against Chemicals and Micro-Organisms - Determination of Resistance to *Permeation* by Chemicals, 8p, \$47.92

**AS/NZS 2381.1:2005:** Electrical Equipment for Explosive Gas Atmospheres - Selection, Installation and Maintenance - General Requirements, 79p, \$77.22.

**AS 3961-2005:** The Storage and Handling of Liquefied Natural Gas, 60p, \$93.06. This specifies requirements for the design, construction and operation of installations.

**AS 4655-2005:** Fire Safety Audits, 42p, \$77.22. Sets out the minimum requirements for the structured auditing of fire safety measures against nominated audit criteria.

**AS/NZS 5024(Int):2005:** Potting Mixes, Composts and other Matrices - Examination for Legionellae, 15p, \$47.92. This Interim Standard sets out a qualitative test method for testing for Legionella species.

**AS/NZS 60079.0:2005:** Electrical Apparatus for Explosive Gas Atmospheres - General requirements, 62p, \$105.34.

**AS/NZS 61241.10:2005:** Electrical Apparatus for Use in the Presence of Combustible Dust - Classification of areas where combustible dusts are or may be present in order to permit the proper selection of equipment. 20p, \$64.55.

- **Drafts** – [www.standards.com.au](http://www.standards.com.au)

**DR 05157: Selection, Use and Maintenance of Respiratory Protective Devices.** Includes discussion of respiratory hazards, the assessment of associated risks and various methods of control including the use of respirators. Revision of AS/NZS 1715:1994. 101 pages.

## Seminars, Conferences, Courses

- **Explosives Storage & the Legal Requirements**

21<sup>st</sup> June 2005, West Ryde. Seminar presented by Mr Walter (Wal) Southwell. He will consider the legislative and standards requirements for the storage and handling of explosives, including some of his experiences as Chief Inspector with significant incidents involving explosives. An overview of the new Explosives Regulation which is to come into operation in July 2005 will be provided.

*Members – no charge, Visitors - \$20, RSVP 17<sup>th</sup> June to “Robyn Hogan” [robyn@f1.net.au](mailto:robyn@f1.net.au), website: [www.aidgc.com.au](http://www.aidgc.com.au) for contacts.*

- **Connect 2005: 4-7 July 2005, Sydney  
Chemical Challenges of the 21<sup>st</sup> Century**

The National Convention of the RACI (<http://raci.org.au>) is about latest chemical techniques, leading edge technologies and opportunities. It should provide a great opportunity for chemists to discuss Hazardous Materials & Environmental issues around green chemistry and sustainable chemical products.

*For details ph: 02-4984-2554; fax: 02-4984-2755; email: [connect@pco.com.au](mailto:connect@pco.com.au); web: [www.pco.com.au/connect2005/](http://www.pco.com.au/connect2005/)*

- **Draft D. Goods Transport Code & Regs, July 05**

The National Transport Commission (NTC) will be presenting an information seminar on the Draft Australian Dangerous Goods Transport Code and Regulations, 7<sup>th</sup> Edition in all capital cities in the 4 weeks after its release on the 6<sup>th</sup> July 2005. *For details: [www.ntc.gov.au](http://www.ntc.gov.au)*

These seminars will be followed by John Borig from Noel Arnold & Associates with further seminars to help industry issues make comment. *Contact Noel Arnold & Associates ph: 03-9890-8811, email: [john.borig@noel-arnold.com.au](mailto:john.borig@noel-arnold.com.au), website: [www.noel-arnold.com.au](http://www.noel-arnold.com.au)*

- **Environmental Health Risk Assessment, 18-22 July 2005, Brisbane**

University of Queensland. 3 days lectures, 2 days projects. Registered by 4 July: 5 days \$1265; 3 day lectures \$935.

*For details: [www.entox.uq.edu.au/EHRAWorkshop.html](http://www.entox.uq.edu.au/EHRAWorkshop.html)*

- **Chemical Hazards & Your Obligations, 31 Aug 05**

North Melbourne. About 4pm to 9pm, with a break for a light meal. Organised by the RACI Health, Safety & Environment Group. Approx. costs: Non-members \$60, Members \$30, Students \$10. More details next newsletter. *Contact RACI Vic Branch ph: 03-9328-28-8, email: [racivic@raci.org.au](mailto:racivic@raci.org.au)*

- **AIDGC Annual Conference, 16<sup>th</sup> Sept, Sydney**

Friday 16<sup>th</sup> Sept 2005, Crowne Plaza, Darling Harbour, 9:00am to 5:00pm. Contact “Robyn Hogan” [robyn@f1.net.au](mailto:robyn@f1.net.au), ph: 02-9430-6739, website: [www.aidgc.com.au](http://www.aidgc.com.au) for details.

*Cost is covered as part of the AIDGC \$500 pa membership fees. Non-Members \$300 approx..*

• **AIOH Conference: 25 Years On**

23rd Annual Conference of the Australian Institute of Occupational Hygienists. Date: 3rd to 7th December 2005. Crowne Plaza Hotel, Terrigal, New South Wales.

Explore how the profession has evolved in this period and its future direction(s). *Details at: <http://www.aioh.org.au/>*

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