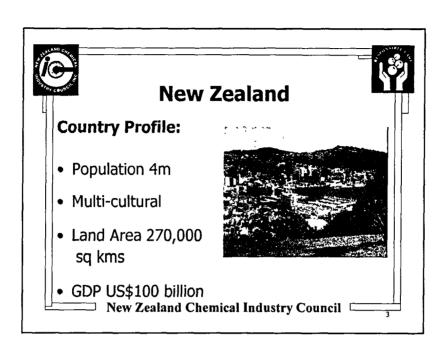


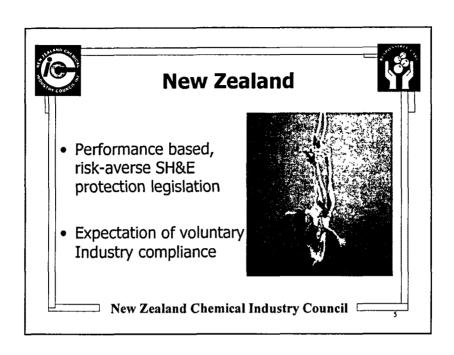


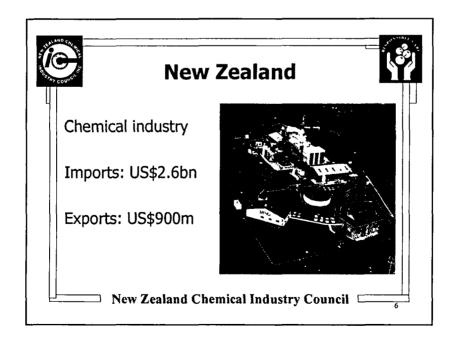
BARRY S DYER

Chief Executive, New Zealand Chemical Industry Council, E-mail BarryDyer@nzcic org nz











New Zealand



- Chemical Control Legislation reflects international Performance Standards and Best Practice
- Seeks global standardisation and harmonisation, particularly with Asia Pacific nations

New Zealand Chemical Industry Council



New Zealand



New Zealand Chemical Industry Council

Established: 1986 Adopted Responsible Care_®: 1991

Membership: 130 Companies

10 Partnerships

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New Zealand



Extensive Regulatory Reform

- Environmental Protection
- Workplace Health and Safety
- Building Construction
- Management of Chemicals (Hazardous Substances)



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New Zealand

New Zealand Chemical Industry Council

Improve National Safety, Health and Environmental (SH&E) performance, particularly the management of Hazardous Substances through the global Responsible Care_® initiative.

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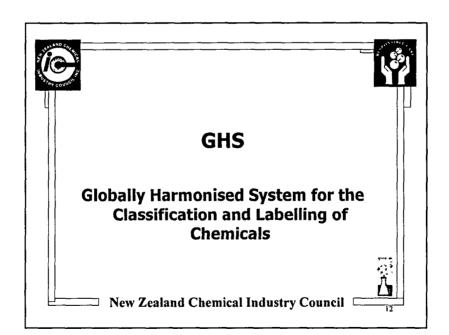


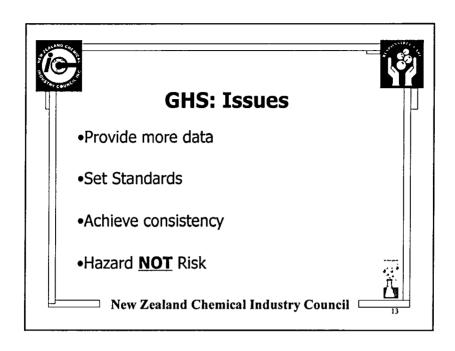


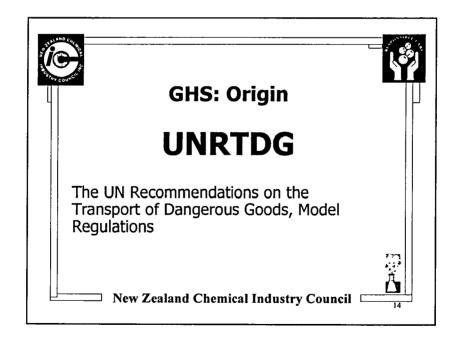
NZCIC Strategy

- Co-operate with Government and Enforcement agencies to implement costeffective SH&E protection policies, regulations, performance standards, compliance and enforcement measures.
- Establish NZCIC as "Centre of Excellence" for SH&E performance and compliance.

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Hazard Classifications for Class 1 Substances (Incorporating UN Dangerous Goods)

Property	Explosiveness									
Class	Class 1									
Subclass	1.1 Mass Explosion	1 2 Projection	1.3 Fire and Minor Blast	1.4 No Significant Hazard	1 5 Very Insensitive	1 5 Extremely Insensitive				
	1.1A	 	 	 						
	1.18	1.28		1.48						
	1.1C	1 2C	1,3C	1 4C	1.5D					
	1.10	1.2D		1.40						
Hazard	1.16	1.2E		1.48						
Classification	115	1.25	1.37	1.48						
	1,1G	1 1G	1.3G	1.40						
		1.2H	1 3H							
	1,17	1.23	1,33							
		1 2K	1,3K							
	1.11	1,21.	1.31							
						1.5N				
				1.45						

Hazardous Substances and Dangerous Goods Hazardous Substances Only UN Dangerous Goods Only

Dangerous Goods Only
2 2 Non-flammable Non-toxic Gatas
2 3 Toxic Gat
6 2 Infectious Substances
7 Radioactive Material
9 Miscellaneous Dangerous Substances and Articles



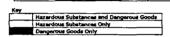
Hazard Classifications for Class 2, 3, 4 and 5 Substances (Incorporating UN Dangerous Goods)

Flamme bility									Capacity to Oxidise		
Close 2		less 3		Class 4				Class 5			
211 General	212 Auresole	3 1 Liquids	3 2 Liquid Decemblished Explosive	4 1 1 Randily Combustible	4.1 2 Self Reactive	4 1.3 Solid Dominatized Explosive	4 2 Spentaneously Combustible	4.3 Dangerous When Wat	\$ 1 1 Liquida /\$elida	S 1 2 Geren	5 2 Organic Perexide
211A	2.1 2A	3 1A	3.2A	4.1 1A	4 1.2A	4134	4.2A	4.3A	\$.1 1A	\$.1.2A	_ 5.2A
2 1 18		3 18	3,28	4.1 18	4.7 28	4.2.38	4.28	4.38	£1.18	1	5 28
		3 1C	3.2C		4.1.2C	4.1.3C	4.2C	4.3C	5 1.1C		5,2C
		3 10									5.20
					4 1.22					$\overline{}$	5,28
					4.1.2F						5,25
		_			4.1.26					=	5 2G
									-		
		-								-	├─-
										=	
	211 Games	211 212 Gene Aurosofe 2114 2.12A 2118	211 212 31 Genes Agreeds Equids 211A 212A 51A 211B 31B	211 212 31 32 Gass Acreeds Upoint Copies Cop	Close 2 Close 3 2.1.1 2.1.2 3.1 1.2.2 General Company	Close 2 Close 3 211 212 31 32 Common Acressed Liqued to Composition Compositi	Cleas 2 Cleas 3 Cleas 4	Close 2 Close 3 Close 4	Class 2 Class 3 Class 4	Close 2 Close 3 Close 4	Class 2 Class 3 Class 4 Class 5

- Dangerous Goods Only
 2 2 Non flammable Non-toxic Gases
 2 3 Toxic Gas
 5 2 Infectious Substances
 7 Radioactive Material
 9 Miscellaneous Dengerous Substances and Articles



Hazard Classifications for Class 6 and 7 Substances (Incorporating UN Dangerous Goods) Toxicity 6.4A 6 6A 6.6B



- Dangerous Goods Only 2 2 Non-flammable Non-toxic Gas 2 3 Toxic Gas 6 2 Infectious Substances 7 Radioactive Material

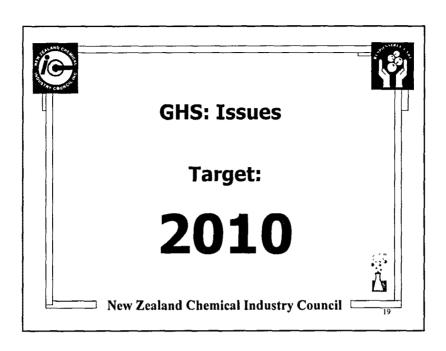


Hazard Classifications for Class 8 and 9 Substances (Incorporating UN Dangerous Goods)

Class	Corrosiyanaas Class 8				Miscellanesu Dangereus Substaness and Articles				
					Class 9				
	81 Metallic Corresive	6 2 Skin Corroshra	8 3 Eye Corrosive	91 Aquatic	9.2 Soli	9 3 Terrestrial Vertebrate	9 4 Terrestrial Invertebrate	UN 9 Environmentally Hezardous Substances	UN 9
	8.1A	8.2A	6.3A	9.1A	9.2A	9.3A	9.4A		
Hezard		8.26		918	9.28	9 38	9 48		
Classification		8.2C		91C	9 2C	9 3C	9 4C		
				910	9 2D				

- - + Food + Manufactured Articles + Medicines











GHS: Implementation

New Regulations

Hazardous Substances and Regulations 2001

- Management System Compliance Requirements
- Implementation Milestones
- Enforcement

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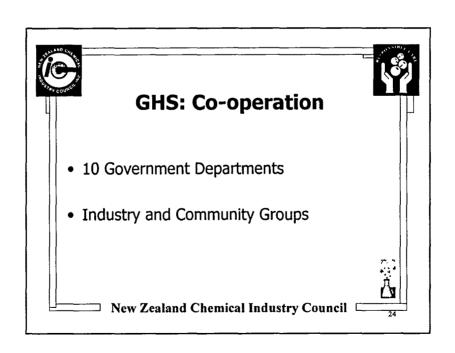


GHS: Industry Implementation Strategy

- Co-operation
- Co-ordination
- Consistency

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GHS: Co-operation

- Help develop Draft legislation and Performance Standards
- Provide Compliance Tools



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GHS: Co-ordination

- Requires clear Leadership
- · Best use of resources
- Minimise Compliance costs

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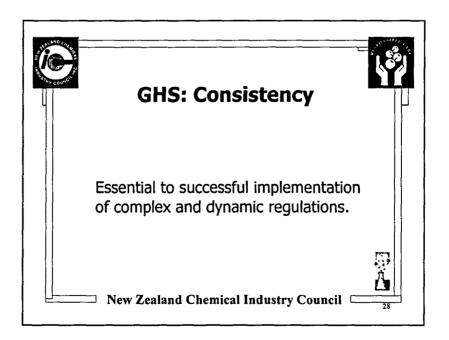




GHS: Consistency

- Support Government objectives
- Help achieve Performance Standards
- Monitor Compliance and report progress

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GHS: Consistency

- Avoid "New Zealand only" solutions
- Reflect International obligations
- National Performance Standards

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GHS: Consistency



- Provide Compliance solutions
- Standardise Implementation, Performance, Assessment, and Enforcement

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GHS: Implementation Obstacles

- Low level of Compliance
- "Patch protection"
- Two systems

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GHS: Implementation Obstacles

- Overlapping responsibilities
- No Lead Agency
- Inadequate Resourcing
- No Supporting Infrastructure

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GHS: Implementation

Obstacles

- · Industry ignored
- Different priorities
- Industry expected to accept responsibility and cost of Implementation

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GHS: Implementation Industry Initiatives

- •Develop National Performance Standards (Codes of Practice)
- Help train Industry and Enforcement Officers
- Encourage Compliance

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GHS: Implementation Industry Compliance Initiatives



- Provision of Technical Advice
- Provide "Compliance Tools"
 - •ChemCall• 24/7 Emergency Response Service
 - •PRINCE Site "Readiness" Inspections

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GHS: Implementation Industry Compliance Initiatives

- •PRINCE · Site "Readiness" Inspections
- •National Codes of Practice
- •ChemSafe Compliance Software

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GHS: Implementation

Industry Initiatives

- Require "Voluntary Compliance"
- Product Stewardship Initiatives

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