

informing the food industry

VITAL® Activities ~ the priorities & challenges

Lisa Warren
VITAL Support, The Allergen Bureau



Overview

- Who is the Allergen Bureau
- Allergen declaration requirements
- Food allergen recalls
- ~ The VITAL® program
- Current Allergen Bureau projects



Who is the Allergen Bureau?

- The peak industry body representing food industry allergen management in Australia and New Zealand
- A membership based organisation established to provide food industry with rapid responses to questions about allergen risk management in food ingredients and manufactured foods
- Established 2005, pre-competitive, 'not-for-profit', industry volunteer Board

Full Members



































































The Allergen Bureau – Our Vision and Mission

Vision

 The Allergen Bureau is a globally recognised and supported industry organisation promoting best practice food industry allergen management, risk review and consistent labelling to facilitate informed consumer choice

Mission

- To facilitate a globally accepted, consistent, science-based approach to food allergen risk assessment, management and communication that:
 - guides industry best practice
 - assists allergen sensitive consumers to make informed choices based on label information



Allergen Bureau Organisation

The Board of Directors

Kirsten Grinter (Nestlé Australia Ltd)
Caroline Gray (DuPont)
Debbie Hawkes (Hawkins Watts)
Karen Robinson (Invited Director)
David Henning (Invited Director)

Our support network

VITAL® Coordinator / Support (Georgina Christensen & Lisa Warren)

Technical expertise (Simon Brooke Taylor & Robin Sherlock)

VITAL® Scientific Expert Panel (VSEP)

Board of Directors Kirsten; Caroline; Debbie David; Karen Management Committee Kirsten; Caroline; Debbie Tom; Ray; Alice Websites & Communication Ionata; Lynsey; Lyn Our Members Management Committee Kirsten; Caroline; Debbie Tom Technical & Scientific Georgie; Simon; Lisa; Robin

Funded Secretariat



Top ten countries visiting Allergen Bureau website

Australia (3718 – 44%)

United States (684 – 8%)

New Zealand (646 – 8%)

United Kingdom (386 – 5%)

Germany (310 – 4%)

Netherlands (255 – 3%)

France (203 – 2%)

India* (175 – 2%)

Belgium (140 – 2%)

Spain (138 – 2%)





Foods & Substances that Require Mandatory Declaration

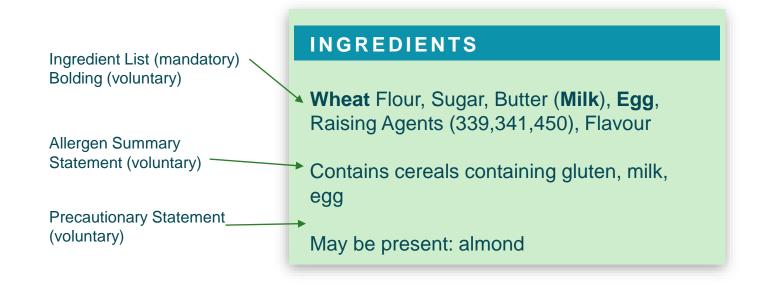
- cereals containing gluten
 (wheat, rye, barley, oats, spelt, their hybridised strains) (incl. exemption)
- ~ crustacea
- ~ egg
- ~ fish (incl. exemption)
- ~ milk (incl. exemption)

- ~ peanuts
- ~ soybeans (incl. exemption)
- sesame seeds
- ~ tree nuts (not coconut)
- ~ lupin
- added sulphites (10mg/kg or more)

Food Standards Code Standard 1.2.3-4



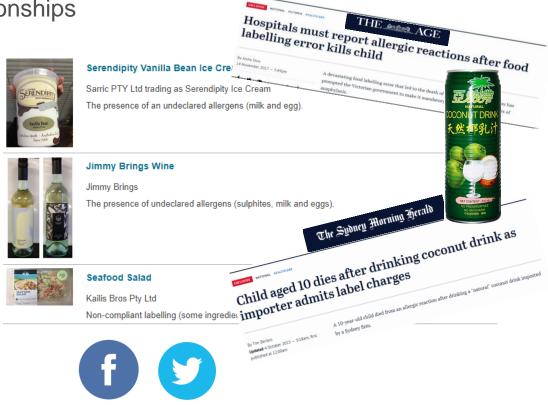
Mandatory and voluntary information





Not declaring allergens accurately is bad for business

- Customer and consumer relationships
 - trust, confidence
- Costs to the business
 - ~ unsafe product
 - brand damage
 - ~ food recall





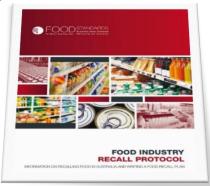
Food recalls

When a food is unsafe, the food business must remove it from distribution, sale and consumption to protect public health and safety.

This process is known as a food recall.

FSANZ has a range of resources for food businesses including:

- The Food Industry Recall Protocol
- Food recall templates
- FAQs for food businesses



www.foodstandards.gov.au/industry/foodrecalls



Undeclared allergen recalls coordinated by FSANZ

Average 10 - 39 undeclared allergen recalls yearly

- Increasing in last few years
- ~ 24 so far this year (Jan Jun 2018)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Total
Undeclared allergen	10	17	13	24	17	16	27	39	33	34	230

Cause

Undeclared dairy (31%), peanut (20%), multiple allergens (15%)

Common food types

Processed foods (33%), confectionary (15%), baked goods (11%), beverages (11%)



Most common reasons for undeclared allergen recalls

- lack of skills and knowledge
- supplier verification issues e.g. ingredients
- packaging errors
- accidental cross contact in raw materials and finished product





The VITAL® Program

- consistent approach to assessing cross contact allergen risk (defined level of risk based upon scientific principles)
- encourages the elimination of cross contact allergens where possible within manufacturing or via material supplier
- clear, consistent and accurate allergen declaration that assists consumers in making safer food choices (standardised precautionary allergen labelling statement)









The 10 Steps of VITAL®

- 1. Determination of relevant allergens
- 2. Identification of intentionally added allergens
- 3. Identification and quantification of cross contact allergens due to ingredients
- Identification & quantification of cross contact allergens due to processing
- 5. Calculation of total cross contact allergen in finished product
- 6. Determination of Action Levels
- 7. Review of labelling recommendations and sources of cross contact
- 8. Recording of Assumptions
- 9. Validation of VITAL assessment
- 10. Ongoing Monitoring





The VITAL® Program tools

- VITAL Procedure
- ~ Decision Tree
- Interactive VITAL Action Level Grid
- VITAL Online (Calculator)
- VITAL training materials
- ~ Guidance documents & FAQs





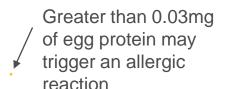


Approx. 8900mg protein in a 70g raw whole egg

Reference Dose

The total protein from an allergic food below which only the most sensitive individual (between 1 and 5% depending on the quality of the data) in the allergic population are likely to experience an adverse

reaction







The VITAL® Scientific Expert Panel (VSEP)

Dr Steve Taylor (Chair of Panel) - Food Allergy Research & Resource Program (FARRP) (USA)

Dr Joseph Baumert Food Allergy Research & Resource Program (FARRP) (USA)

Dr Geert Houben Program Manager Food Safety, Netherlands Organisation for Applied Scientific Research (TNO) supported by **Mr Benjamin Remington** (NL)

Dr Rene Crevel RENE CREVEL Consulting Ltd (UK) (Formerly Allergy & Immunology, Unilever)

Dr Katie Allen Paediatric Gastroenterologist / Allergist, Royal Children's Hospital, University of Melbourne. Supported by **Ms Jennifer Koplin** (AUS)

Dr Simon Brooke Taylor Food Safety & Risk Analysis Consultant, Allergen Bureau (AUS)



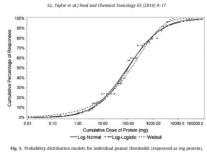
VITAL Science – http://allergenbureau.net/vital/vital-science/





The VSEP overarching scientific approach

- analysed existing published clinical data plus some unpublished data. Over 1800 clinical data points (in 2011) and growing each year
- statistically based risk assessment, validated using probabilistic modelling for the population
- scientifically and clinically sound, defensible and transparent
- protection for vast majority of people with food allergy





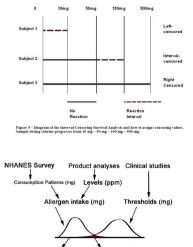


Figure 8 – Probabilistic risk assessment model for food allergens in the U.S., figure adapted from Spanjersberg et al. (2007).

informing the food industry Summary of the VITAL Scientific **Expert Panel Recommendations**





VITAL® Training

- Global partners and collaborations to support and facilitate VITAL implementation
- Critical to long term success (global consistency)
- Ongoing industry engagement & connection

19 endorsed Training Providers

Australia and New Zealand North and S.E Asia Pacific region Africa Europe USA & Canada Mexico & S. America

Virtual & Online training

Over 2,500 people trained in VITAL version 2.0

Australia & New Zealand 2,150 participants

Other countries 350 participants





VITAL ® Online

- The user-friendly, web-based VITAL Calculator
- Input the results of a VITAL risk assessment
- Output a finished product labelling outcome

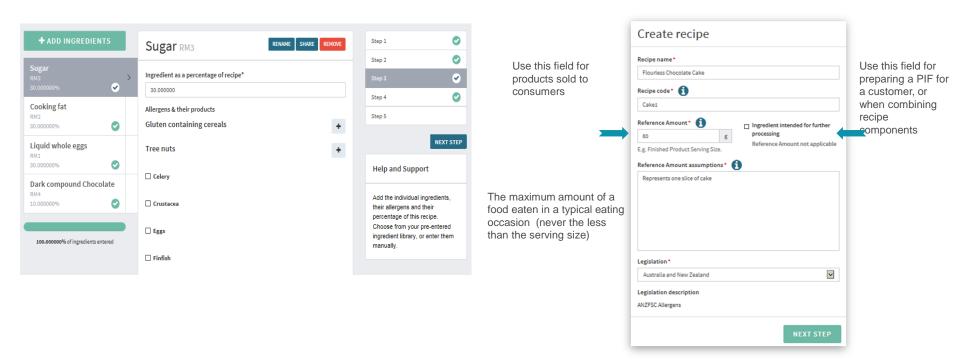








VITAL ® Online (vital.allergenbureau.net)







Source: VITAL Online

Example of a VITAL® Online Labelling Outcome Summary

VITAL labelling outcomes will appear like this

Substances	Reference dose (mg)	Action level 1	Action level 2	Cr	oss contact amount	Labelling outcome		
odbatalloca -	Reference dose (mg)	Action level 1	Action level 2	Particulate	Readily dispersible (ppm)	Labelling outcome		
Celery								
Cereals containing gluten (Total)	1	< 12.5 ppm	≥ 12.5 ppm					
Barley	1	< 12.5 ppm	≥ 12.5 ppm					
Oats	1	< 12.5 ppm	≥ 12.5 ppm					
Rye	1	< 12.5 ppm	≥ 12.5 ppm					
Spelt								
Wheat	1	< 12.5 ppm	≥ 12.5 ppm					
Crustaces	10	< 125 ppm	≥ 125 ppm					
E995	0.03	< 0.375 ppm	≥ 0.375 ppm		/	Intentionally added		
infish	0.1	< 1.25 ppm	≥ 1.25 ppm		24	Action Level 2		
upin								
Milk	0.1	< 1.25 ppm	≥ 1.25-ppm		0.9	Action Level 1		
Mustard								
Other								
Peanut	0.2	< 2.5 ppm	≥ 2.5 ppm	yes		Action Level 2		
Sesame	0.2	< 2.5 ppm	≥ 2.5 ppm					
Shellfish/Molluscs					\			
Soy	1	< 12.5 ppm	≥ 12.5 ppm			Intentionally added		
Sulphites								





Growing International Interest

VITAL Online website top ten visiting countries

Australia
Netherlands
Belgium
New Zealand
France
United States
Germany
United Kingdom
South Africa
Italy







Expanding VITAL® Online to the world

Benefits

- a consistent approach to assessing cross contact allergen risk applied throughout the world
- clear, consistent and accurate allergen declaration (and consistent level of risk) for all consumers

Challenge

 \sim one size does not fit all



							1.																			LEG CLORY
					AUSTR	HONG	NO				/sik	0				10	,cr			JA	CRIC	F		24		getelt telegope och productive och p
			CATIA	DF/	100	PLO	42P	-/4	AINA	Page.	THAIL	BOLIV	BRAZI	1/4	0	DI. VA	6. V	NETIC	2 6	6/2	AFRICA AFRICA	MALA	N CP	APAN	/200	all Is all
FOOD ALLERGENS		JSA/	CAT	₩/	Pro /	40 <u>/</u>	CHIMA	KORE	/b/	P.R.	(H)	80,	80 K	CHILE	(O)	COSTA	CUBA	Net.	AICAR!	500/	JENE L	MAL	SINGAP	P.V.	50	Str MO.
CRUSTACEAN SHELLFISH	X	X	X	х	х	X	х	Х	X	Х	x	X	X	X	X	X	X	х	Х	X	X	x	Х	X		
EGG	X	X	X	Х	X	X	Х	Х	Х	Х	Х	X	X	X	X	X	Х	X	Х	X	X	Х	Х	Х		
FISH	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	X	Х		Х		
MILK	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	X	Х		
PEANUT	Х	Х	Х	Х	Х	Х	Х	Х	X	X	Х	X	Х	X	Х	X	Х	Х	X	Х	X	Х	X	Х		
SOY	Х	X	X	Х	Х	X	X		X	X	X	X	X	X	X	X	X	Х	Х	Х	X	X		Х		
TREE NUTS	X	X	X	Х	Х	X	Х		X	X	X	X	X	X	X	X	X	Х	X	X	X	X		Х		
WHEAT	X	Х	X	Х		X	Х				X	X		X	X	X		Х	X	X			X			
CEREALS W/ GLUTEN		Х	Х	Х	Х	Х			Х	X	Х	Х	Х	X	Х	X	Х	Х		Х	X	Х		Х		
BUCKWHEAT							Х																X			
CELERY			X																					Х		
LUPIN			X	Х																				Χ		
MOLLUSCAN SHELLFISH		X	Х	Х			Х												Х			Х		Х		
MUSTARD		Х	Х																					Х		
SESAME		X	X	Х																				Х		
SULFITES	Х	Х	Х	Х	Х				Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	х	Х		Х		
BEE POLLEN/ PROPOLIS				Х																						
ROYAL JELLY				Х																						
MANGO								Х																		
PEACH							X																			
PORK							X																			
TOMATO							X																			
ATEX (NATURAL RUBBER)												X														

^{*}Taiwan FDA released a new draft version of regulations on 12-11-2017 to include 11 proposed food allergens but they have not been finalized.

https://farrp.unl.edu/IRChart

^{**}Voluntary labeling recommended for Abalone, Mackerel, Squid, Salmon, Salmon Roe, Cashew, Walnut, Matsutake Mushroom, Sesame, Soybean, Yam, Apple, Banana, Kiwifruit, Orange, Peach, Beef, Chicken, Gelatin, Pork.

^{***}GSO includes the countries of Saudi Arabia, UAE, Kuwait, Bahrain, Oman, Qatar, and Yemen





What Success Looks Like

- The VITAL Program, with its tools, support material & services, it is globally relevant
- The science that underpins the reference dose/action levels remains current through VSEP ongoing interaction
- Growth through global partners and training collaborations
- Continuous development of VITAL as the industry and the program evolves



Finally

- Allergen Bureau continues to respond to stakeholder needs
 - Working groups
 - Investment in development of resources to support allergen management and VITAL
 - Awards for best practise allergen management
- Collaborate with key stakeholders
 - ~ National Allergy Strategy, Allergen Collaboration
 - FSANZ consultation pieces
 - Codex consultation groups
- International Collaboration FAMS2019



FAMS2019 – 13th-16th May 2019, MELBOURNE. SAVE THESE DATES!!

by Imcleod / ## May 28, 2018 / ## Allergen Bureau News, Industry News, Training / 9, 0



The 3rd Food Allergen Management Symposium – FAMS2019 – will be held at State Library Victoria, Melbourne from 13-16 May 2019.

Food industry, researchers, clinicians, dietitians, consumer groups, regulators and legislators with an interest in food allergy and food allergen management should attend FAMS2019.



For further engagement & information

- Visit the Allergen Bureau website <u>www.allergenbureau.net</u>
- Join us & enjoy the benefits of the Allergen Bureau membership www.allergenbureau.net/about-us/join-us/
- Subscribe to our free monthly Allergen Bureau eNews <u>www.allergenbureau.net/news/</u>
- Access the free Allergen Bureau Helpline
 - email: info@allergenbureau.net
 - Phone: +61 437 918 959 (International)

