

Business Entrepreneurs' Programme



Food Allergen Series: Food Allergen Fundamentals Presented by The Allergen Bureau

Hosted by the Department of Industry, Innovation and Science Entrepreneurs' Programme in collaboration with Food Innovation Australia Limited.







Entrepreneurs' Programme

The Entrepreneurs' Programme is the Australian Government's flagship initiative for business competitiveness and productivity. It forms part of the Australian Government's National Innovation and Science Agenda.

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- Business Management
- Incubator Support
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informing the food industry

Food Allergen Fundamentals - Introduction

Georgina Christensen, Allergen Bureau

The Allergen Bureau Ltd ACN 162 786 389

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Welcome to webinar	Georgina Christensen
& Introduction	The Allergen Bureau
Who is the Allergen Bureau	Karen Robinson
Industry Parspective on Allergens	The Allergen Bureau
Industry Perspective on Allergens	Pepsico
Perspective from an allergic patient/carer	Maria Said
What is a food allergy?	Allergy & Anaphylaxis
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Mandatory requirements for the food industry for the declaration of food	Lisa Warren & Georgina
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Overview of Allergen Management	Robin Sherlock
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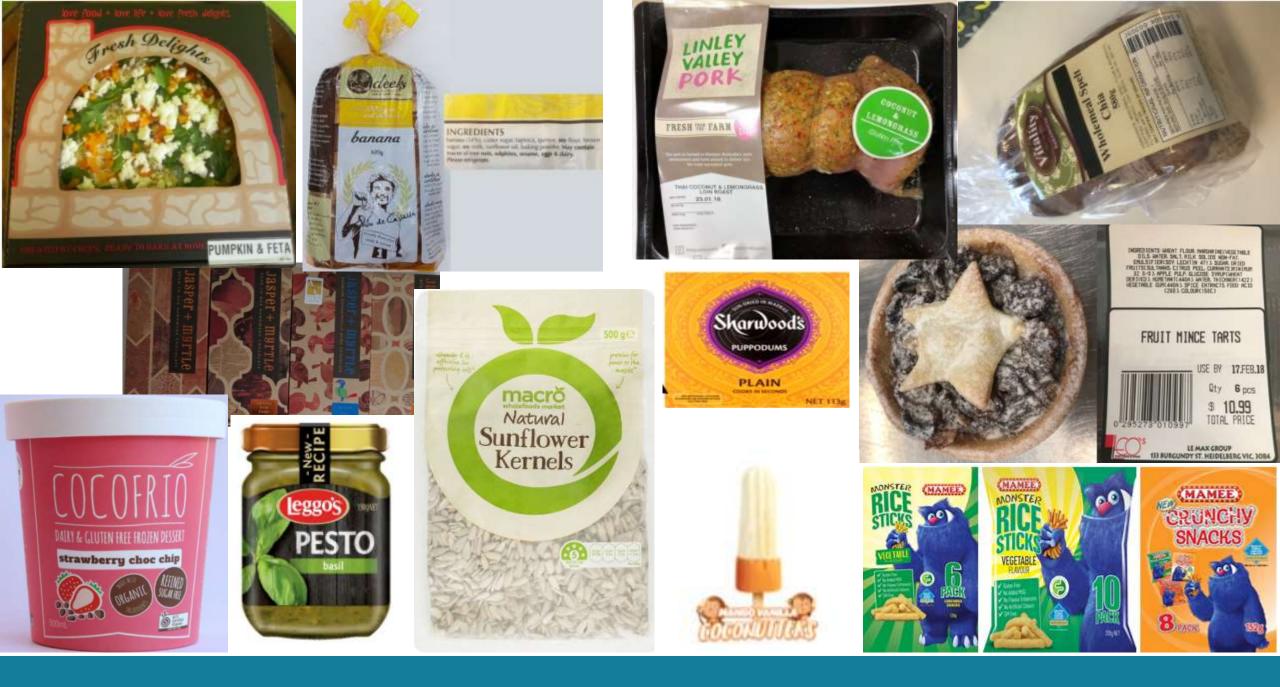


Food Allergy & Allergen Management Webinars

Webinar 1 – Food allergen fundamentals Thursday 22nd March, 2018

Webinar 2 – Industry best practice for the identification, control and management of food allergens Thursday 19th April 2018

Webinar 3 - Product labelling & recalls Thursday 24th May 2018













informing the food industry

Allergen Bureau Introduction

Karen Robinson, Allergen Bureau Director PepsiCo ANZ Quality and Food Safety Manager



Who is the Allergen Bureau?

- The Allergen Bureau is the peak industry body representing food industry allergen management in Australia and New Zealand
- The Allergen Bureau is 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 Allied Mills RNOTTe orohor DTS DANISCO coles OD LABORATO First you add knowledge. GWF/ George Westor 👩 foodLinker freedom GROUP goodman Fielder ifp KERRY **HawkinsWatts** Greens MARS Kraft Heinz pladis **TEULY** parmalat 🎉 Nestlé ASIA / PACIFIC Sanitarium Simplot modooid-1 Woolworths 6 RICC Unilever The Rice Food Expert



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



The Allergen Bureau: What do we do?

- Working Groups
- Allergen Management & VITAL® Program Resources
- Website allergenbureau.net
- Develop and maintain VITAL® Online
- Free Helpline: General Information & Technical Support
- Facilitate VITAL[®] Scientific Expert Panel

An Industry Perspective

Karen Robinson, Allergen Bureau Director PepsiCo ANZ Quality and Food Safety Manager

The way we were.....

- Allergens weren't on the radar, no labelling requirements
- Industry awareness managed by Quality team
- Limited training and understanding

Current Industry Status

- Allergen management forms part of manufacturing and encompasses
 production scheduling, sanitation schedules and NPD
- Allergen awareness is now part of our everyday dialogue, from the CEO down to factory shop floor.
- Allergen Training is now multi-functional

The Why's

- Mandatory
- Threat of a recall
- Consumer Insights
- Responsible manufacturer

Holistic Allergen Management

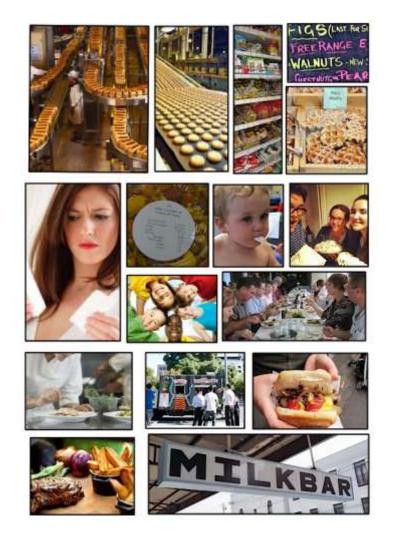
- Part of the site Food Safety Plan and is everyone's responsibility NOT just QC/QA
- Training across all levels of the manufacturing site
- Understanding People movements
- Storage of Raw Materials
- Internal auditing of processes
- NPD



The Reality of Food Allergy & Anaphylaxis

Maria Said, CEO, Allergy & Anaphylaxis Australia

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awareness avoidance action. We all need food to survive – it's not an option.

People have a right to be able to access food that is safe.

Food labels must give accurate information on content – people's lives depend on it.





Adverse Reactions to Foods

Food intolerance

Food allergy

Food poisoning

Food aversion

30 - 40% of population say they are allergic





Coeliac Disease

Wheat Intolerance

Wheat Allergy







Allergy – immune response

Mild Moderate Severe

Immune system reacts to a substance that for most, is harmless. (pollen, dust mite, insect, food, cockroach, animal dander/saliva)

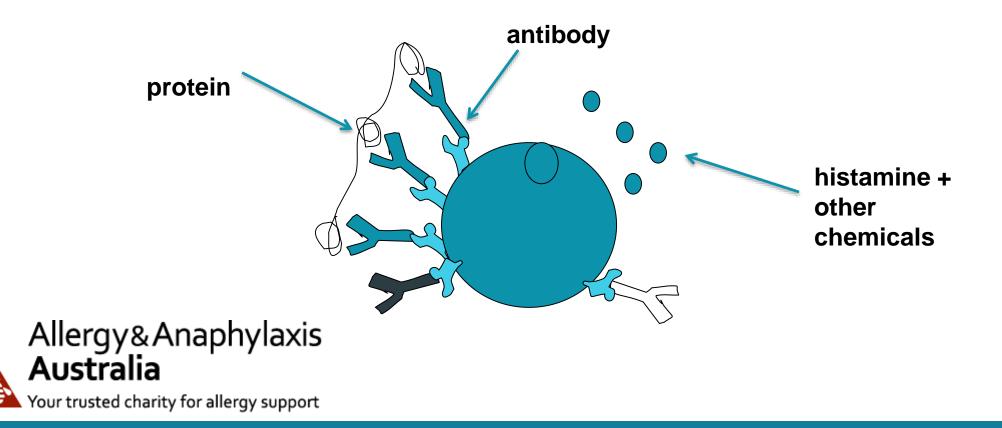
Body develops antibodies which recognise foreign substances. Not all with antibodies will develop symptoms





Food Allergy – immune response

Food protein binds to the antibodies and triggers release of mediators (e.g. histamine) causing symptoms



awareness avoidance action.

90% of food allergic reactions are triggered by:

Egg Peanut Tree nuts Soy Sesame Wheat Fish Shellfish Lupin



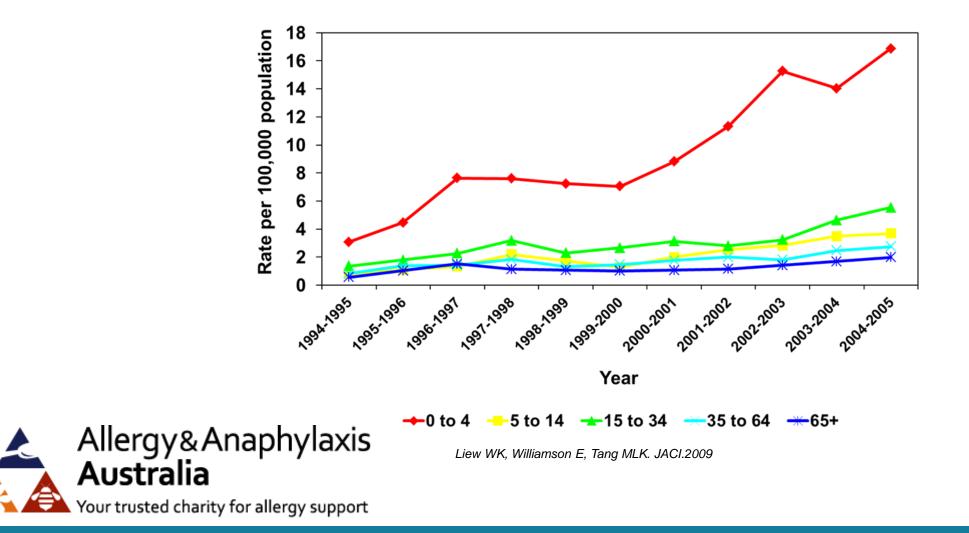
BUT – any food can trigger allergic reaction- including anaphylaxis





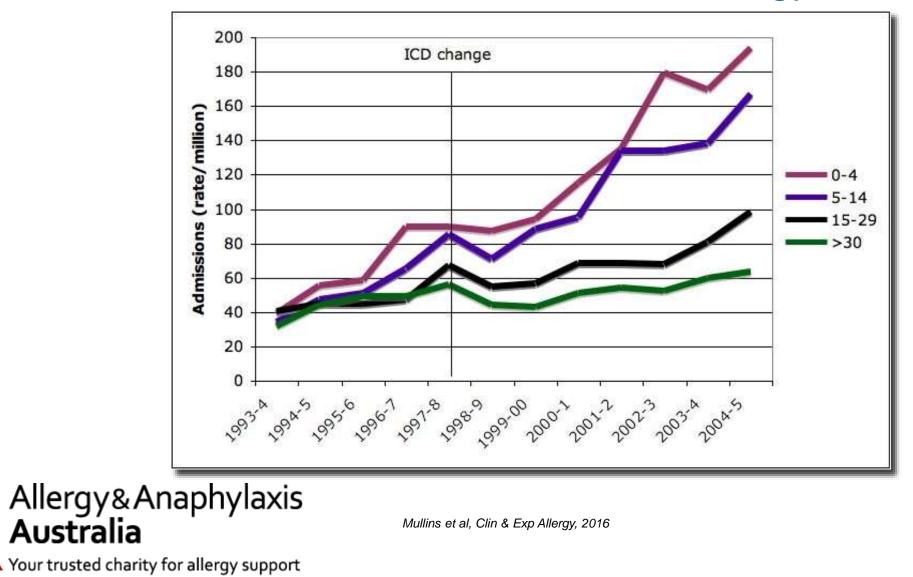
Emergency Hospitalisations

Food Anaphylaxis Admissions in Australia





Increase in rates of food allergy





Why?



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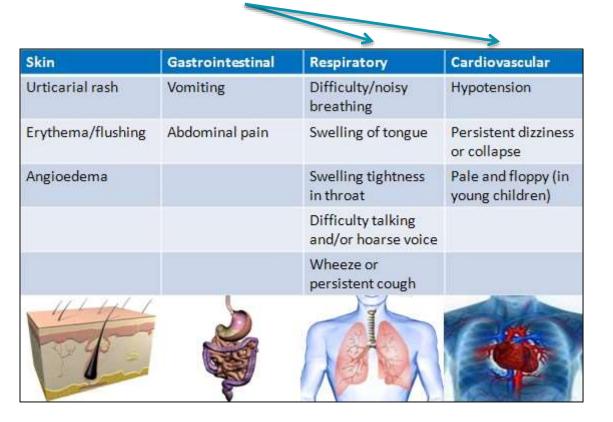






What is anaphylaxis?

Anaphylaxis is the most severe form of allergic reaction





awareness avoidance action.

Source: ASCIA



ASCIA Action Plan for Anaphylaxis (emergency response plan)

Viet a	For EpiPen® adrenaline (epinephrine) autoinjector
ne: e of birth:	
	SIGNS OF MILD TO MODERATE ALLERGIC REACTION
	Swelling of lips, face, eyes Hives or welts Tingling mouth Abdominal pain, vomiting (these are signs of anaphylaxis for insect allergy)
Photo	ACTION FOR MILD TO MODERATE ALLERGIC REACTION
	For insect allergy - flick out sting if visible For tick allergy - freeze dry tick and allow to drop off Stay with person and call for help Locate EpiPen® or EpiPen® Jr adrenaline autoinjector Give other medications (if prescribed).
firmed allergens:	Phone family/emergency contact
ily/emergency contact name(s):	Mild to moderate allergic reactions (such as hives or swelling) may not always occur before anaphylaxis
	WATCH FOR ANY ONE OF THE FOLLOWING SIGNS OF
s Ph:	ANAPHYLAXIS (SEVERE ALLERGIC REACTION)
e Ph:	Difficult/noisy breathing Difficulty talking and/or
ile Ph: prepared by medical or e practitioner:	Swelling of tongue Swelling/tightness in throat Wheeze or persistent cough Persistent dizziness or collaps Pale and floppy (young children
by authorise medications specified on this to be administered according to the plan ed:	ACTION FOR ANAPHYLAXIS
Atte:	1 Lay person flat - do NOT allow them to stand or walk - If unconscious, place in recovery position - If breathing is difficult allow them to sit 2 Give EpiPen® or EpiPen® Jr adrenaline autoinjector 3 Phone family/emergency contact 5 Further adrenaline doses may be given if no response after 5 minutes 6 Transfer person to hospital for at least 4 hours of observation If In doubt give adrenaline autoinjector Commence CPR at any time if person is unresponsive and not breathing normal ALWAYS give adrenaline autoinjector FIRST, and then asthma reliever puffer if someone with known asthma and allergy
All EpiPen [®] e should be held in place for 3 conde refardlese of instructions on device label	ASTIMIA TELLEVET DUTTET if someone with known asthma and allergy to food, insects or medication has SUDDEN BREATHING DIFFICULTY (including wheeze, persistent cough or hoarse voice) even if there are no skin symptoms Astima reliever medication prescribet:



Knowledge for Life. + ++++

awareness avoidance action.

Currently, there is no cure; avoidance of the food is critical.

Education is the key to management





Food allergy greatly impacts quality of life

Greater impact that juvenile diabetes, or rheumatoid arthritis. Can be immediately life-threatening. Severity of a reaction is unpredictable. Socialising (family, work) Shopping and food labels Eating out Cooking from scratch Travel Holidays Cost

Allergy&Anaphylaxis Australia Your trusted charity for allergy support



What we say to individuals with food allergy

Food allergy is your responsibility

Strict avoidance of the allergen

Always read ingredient labels or ask about food content

Forward plan

Disclose allergy clearly and ask questions when eating out

Always have emergency action plan and adrenaline autoinjector access

No adrenaline – NO EAT!

Report reactions to food products/in food service





Causes of accidental exposure

Not reading/understanding ingredient label

Not listening to customer/poor communication with other staff

Not enquiring about food content

Sharing food

Inaccurate labelling







Causes of accidental exposure

Cross contamination from one food to another in food service areas. This can occur through storage, preparation, cooking or serving

-utensils or equipment

-re-used cooking oils

- work surfaces





Packaged food caused death

Ronak Warty

10 years Died Dec 2013



Narkena Natural Coconut Drink

Imported from Taiwan





Food Allergy

Impacts on quality of life Always read labels

Always disclose your allergy

No adrenaline = No eat



IMPORTANT: Even after all your checks, ALWAYS be prepared for an allergic reaction.





Management of food allergy is a challenge. Everyone has a role to play in reducing risk.









Email: <u>coordinator@allergyfacts.org.au</u> Phone: 1300 728 000







informing the food industry

Mandatory requirements for the declaration of food allergens

Georgina Christensen, Allergen Bureau Lisa Warren, Allergen Bureau





Food Standards Australia New Zealand (FSANZ)

Australia New Zealand Food Standards Code

- ~ Chapter 1 Introduction and standards that apply to all foods
- ~ Chapter 2 Food Standards
- ~ Chapter 3 Food safety standards (Australia only)
- ~ Chapter 4 Primary production standards (Australia only)
- ~ Schedules



Allergen information must be provided either

- attached to the package/food (bear a label)
- upon request or accompany the food
- \sim in connection with the food

Displayed in an assisted service display cabinet

> A food for sale in a package must bear a label unless ...

Delivered packaged & ready for consumption as express order of purchaser

Sold at a fundraising event

Made & packed

on premises

which it is sold

Packaged in presence of purchaser

Whole or cut fresh fruit or veg

Food Standards Code Standard 1.2.1



Foods and Substances that Require Mandatory Declaration

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

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



Foods and Substances may be present as

- ~ ingredient or as an ingredient of a compound ingredient; or
- a substance used as a food additive, or an ingredient or component of such a substance; or
- a substance used as a processing aid, or an ingredient or component of such a substance; or food





Allergen information usually declared in ingredient list

INGREDIENTS

Wheat Flour, Sugar, Butter, Egg, Raising Agents (339,341,450), Flavour



Best Practice - show allergens using common terms

INGREDIENTS

Wheat Flour, Sugar, Butter (Milk), Egg, Raising Agents (339,341,450), Flavour clearly shows that butter is a product of milk



Additional requirements

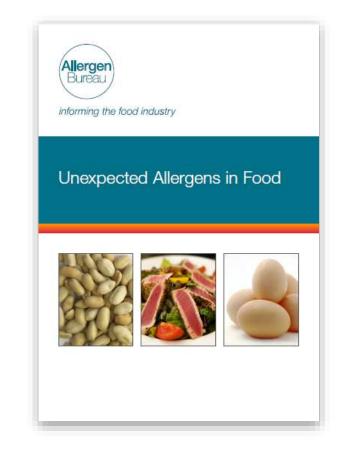
- ~ Cereals containing gluten
- \sim Tree nuts
- ~ Crustacea

The specific name must be declared



What allergens are in my products?

- food allergens can be present in many food ingredients and are not always obvious from their name
- this guide identifies basic food ingredients and food additives that may contain or be derived from an allergen





Allergen labelling exemptions

- ~ Cereals containing gluten present in beer & spirits
- ~ Glucose syrups made from wheat starch
- ~ Alcohol distilled from wheat or whey
- ~ Isinglass as a clarifying agent in beer or wine
- ~ Soybean oil that is degummed, neutralised, bleached, & deodorised
- ~ Tocopherols or phytosterols derived from soybeans

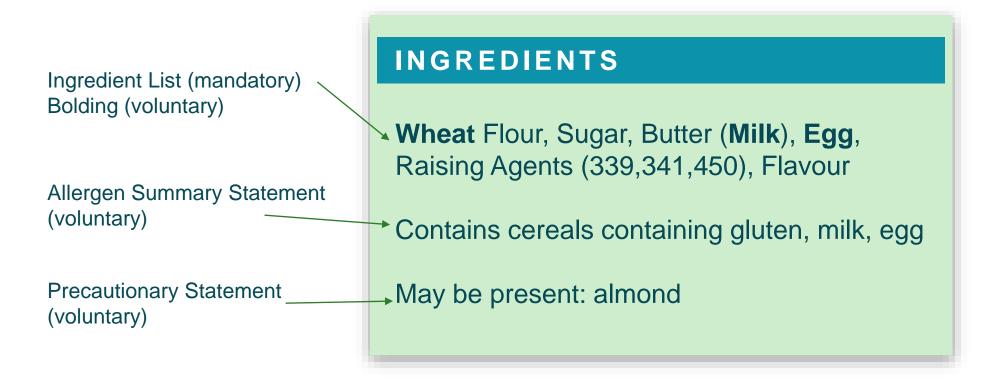


'Free' claims

- ~ Blanket claims such as 'No Allergens' are not helpful
- ~ Free claims must be true 100% of the time
- ~ Free claims require substantiation & a high standard of validation
- ~ Criteria for Gluten Free & Lactose Free in Schedule 4 of the Code



Mandatory and voluntary information





Summary

- Allergen status of all foods needs to be labelled, displayed or provided upon request
- Understand the allergens in your ingredients regardless of where you are in the supply chain
- ~ Declare allergens in the ingredient list using simple language

A supporting document which contains links to more information will be available after this webinar

Allergen Management – An Introduction

Rob Sherlock : Director SHERLOCK FOOD ALLERGEN RISK MANAGEMENT

SHERLOCK FOOD ALLERGEN RISK MANAGEMENT



We know the why

Obligation

Reputation

Public Health Consequences

Allergen Management produces the best possible outcome for all

Industry Guidance

Key messages for Manufacturers & Industry

Implement an effective allergen management plan.

Train staff in food allergen risks, management and communication.

Provide clear and accurate information on the allergen status of your product.

Food manufacturers have a responsibility to manage the unintentional presence of food allergens.

http://www.foodstandards.gov.au/consumer/foodallergies/foodallergenportal/Pages/allergenInfoForIndustry.aspx

Why a specialised approach?

Microbial and chemical control assist allergen control but are not specifically designed to provide allergen control and remove the allergen.

Most recent recalls were perfectly acceptable from a chemical, microbial and foreign object point of view.

Sanitising does not remove protein.

Environmental microbial or hygiene monitoring give a good indication of cleaning but an all clear on the micro result does not mean that effective allergen control is in place.

The How

Understand your ingredients

Manufacture the product to reduce risk Label the product and deliver it to the right consumer

SHERLOCK FOOD ALLERGEN RISK MANAGEMENT

Allergen Management Plan (AMP)

Systematic assement to identify and control allergens.

Needs to consider all elements from incoming ingredients to finished product.

Document all allergens (ingredients sub ingredients, packaging).

Identify all processes and equipment impacted.

Rate the relevant risk and identify preventative controls.

Validate the effectiveness of the controls and verify as part of quality program.

Should sit as part of a HACCP plan and should be reviewed annually as a minimum.

Tools and Resources - Theory into Practise



SHERLOCK FOOD ALLERGEN RISK MANAGEMENT

The How

Ingredients Process Product

Start with what you have and document as you go.

Examine your site GMP policies and procedure, look at the SOPs, your HACCP plan or Food Safety Plan.

All of the above form part of your allergen management program and assist with allergen control

Look at raw material specifications, cleaning, production schedules and current critical controls –these form part of the AMP – call them out and document them.

Allergens and a HACCP approach

Application of principles of HACCP to the allergen issue requires a rethink of basic concepts.

Nature of allergens is such that traditional approach like temperature control and sanitising are not effective.

Shift the perspective.



SHERLOCK FOOD ALLERGEN RISK MANAGEMENT

HACCP for allergens

Ingredients and Process are the risk

- 1. Approved Supplier program
- 2. Raw Material control
- 3. Use segregation and scheduling with effective cleaning
- 4. Training
- 5. Labelling

Validate the controls are effective and verify that they are in place. This is a crucial step in your food safety plan and HACCP program to confirm that control measures are effective and on going

Change Control

Significant change should prompt a review of the risk and controls

Labels tell the story for the consumer

Accurate and easily understood

Regulations require the declaration of all allergens listed in FSANZ 1.2.3-4

Provide information regarding the possible presence of a major allergen,

- based on risk assessment
- Incorrect labels are a major cause of recalls
- Use existing quality checks to assist in compliance
- Line clearance and label control are critical
- Labels enable allergic consumers to make a risk assessment

Right Product - Right Pack





Risk Assessment of cross contact risk and VITAL[®] 2

a risk based methodology for food producers

assesses the impact of allergen cross contact

uses an action level grid to determine if the presence of residual protein from allergenic substances through cross contact requires precautionary labelling

aims to avoid indiscriminate use of precautionary labelling

preserve a valuable risk management tool

minimise risk to allergic consumers

industry best practise

The VITAL[®] Program must be part of an established allergen management plan which includes a HACCP based food safety program that is adapted for allergen control

Back to Basics

As members of the food industry we are required to provide safe food to all consumers.

Allergic consumers need to able to choose food with confidence.

Allergen management is a key component of producing and providing safe food.

Allergen management can be built into existing programs.

The key is to understand **your** process and what affects it.

Conclusion

Understand your raw materials and production process.

Control the production of both allergen and non-allergen containing product.

Train your staff and equip them to manage issues.

Have confidence in your controls, confirm they in place and effective.

Label product appropriately in a way that is clear and accurate.

Keep records, maintain traceability.

Have consistent information and language across the entire site.

Keep it simple – complex isn't necessary.

Thank you

Presenter : Rob Sherlock

Director, Sherlock Food Allergen Risk Management Pty Ltd

Providing risk reviews, analytical advice, consultative services & training in food allergen risk management

Allergen Bureau Technical Advisor - Analysis

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Thank you!

Webinar 2 – Industry best practice for the identification, control and management of food allergens

Thursday 19th April 2018

Webinar 3 - Product labelling & recalls

Thursday 24th May 2018



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