Allergen and intolerance Fact sheets for food businesses



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Allergens— Peanuts, nuts and their products

Peanuts and tree nuts

Some foods can cause problems for the peanut/nut allergic individuals and should be avoided unless they can positively confirm there is no peanut/tree nut protein present. Sometimes peanuts will be stored near other nuts in the production line or processed with other nuts and contamination may occur as a result of this practice. If you have a peanut allergy it's safer to avoid all nut products. Tree nut allergic individuals should avoid peanuts for the same reason.

What about coconut?

Despite the fact that coconut has the word 'nut' in its name, coconuts are not related to tree nuts or peanuts. Many individuals who have an allergy to these items can still eat coconut (unless their doctor has told them not to).

What is lupin?

Lupin is a legume and is mainly used in flour-based products such as pastry and pasta. The major allergens in lupin are also found in peanuts, so people who are allergic to peanuts could react to lupin. People with peanut allergy should avoid foods containing lupin.

Effects of these peanuts and other nuts on sufferers

Severe allergic reaction anaphylaxis

- Difficulty and/or noisy breathing
- Swelling of the tongue
- Swelling or tightness in the throat
- Difficulty talking or hoarse voice
- Wheeze or persistent cough
- Loss of consciousness and/or collapse
- Pale and floppy (young children)

Mild to moderate allergic reaction

- Tingling of the mouth
- Hives, welts or body redness
- Swelling of the face, lips, eyes
- Vomiting, abdominal pain

References

- Food Standards Australia New Zealand Food Standards Code (www.foodstandards.gov.au)
- Food Allergy & Anaphylaxis Alliance (www.foodallergyalliance.org)
- Anaphylaxis Australia (www. allergyfacts.org.au)
- The New Additive Code Breaker: Everything you should know about additives in your food by Maurice Hanssen (Lothian 1991, ISBN: 0850914779)
- The Food Intolerant Consumer (www.foodintol.com)
- Australasian Society of Clinical Immunology and Allergy— Education Resources (www.allergy.org.au)

The following foods can contain peanuts:

Asian meals baked goods biscuits (sweet or dry) bouillon breakfast cereals cakes chocolates nougat health bars hydrolysed vegetable protein ice cream kebabs marzipan muesli natural flavourings pastry goods peanut butter peanut oil (arachis oil) praline sauces (gado gado, pesto, satay, etc.) soup spaghetti sauce spring rolls vegetarian dishes vegetable oil wontons



Tree nuts include:

almonds brazil nuts cashews chestnuts hazelnuts macadamia nuts pecans pine nuts pistachios walnuts

The following foods can or do contain nuts:

Amaretto (almond liqueur) Asian meals biscuits (sweet and dry) breakfast cereals cakes chocolates gravy health bars ice cream marzipan muesli nougat sauces (pesto, etc) Frangelico (hazelnut liqueuer) praline

Important: The lists above are not complete lists of foods and ingredients to avoid. They are intended to be used as a guide.



Allergens— Eggs and egg products

Most people who are allergic to hen's eggs are also allergic to similar proteins found in other bird's eggs such as duck eggs and should not consume any type of egg.

Effects of these foods on sufferers

Severe allergic reaction-anaphylaxis

- Difficulty and/or noisy breathing
- Swelling of the tongue
- Swelling or tightness in the throat
- Difficulty talking or hoarse voice
- Wheeze or persistent cough
- Loss of consciousness and/or collapse
- Pale and floppy (young children)

Mild to moderate allergic reaction

- Tingling of the mouth
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Egg and egg products can be labelled as follows:

albumen albuminate egg powder egg solids egg white egg yolk globulin

livetin ovalbumin ovomucin ovomucoid ovovitellin silici vitellin

Products that can contain eggs include:

almond bread batters (pancakes, for deep frying, etc) biscuits brioche cake mixes cakes choux pastry consommé crumbed products (cutlets, parmigana, etc) custard dessert mixes doughnuts egg-based dressings (mayonnaise, tartare) egg noodles egg-based sauces (hollandaise, béarnaise) glazed rolls or pastries

hamburgers, rissoles and meatloaf jellied meat macaroons malted drinks marshmallows meringues mousses omelettes pancakes and pikelets pavlovas puddings quiche sausages slices (hedgehog, lemon slice, etc.) soufflés waffles wines (selected)

Important: The list above is not a complete list of foods and ingredients to avoid. It is intended to be used as a helpful guide.



Allergens— Fish, crustaceans, molluscs and their products

Fish, crustaceans and their products

If a customer identifies themselves as suffering from a fish, seafood or crustacean allergy, it is important for you to determine which classes of seafood they are allergic to.

The major groups of fish and shellfish which can trigger allergic reactions are:

- scaly or finned fish (e.g. salmon, cod, mackerel, sardines, herring, anchovies, tuna, trout, haddock, John Dory)
- crustaceans (e.g. prawns, shrimps, lobster, crab, crayfish, yabbies, marron)
- molluscs (e.g. snail, abalone, clams, oysters, mussel)
- cephalopods (e.g. octopus, cuttlefish, squid, calamari)
- gastropods (e.g. sea slugs, snails)

Source: www.foodstandards.gov.au/foodmatters/ foodallergies/allergies.cfm

Other important points to consider:

- People who are allergic to one type of shellfish often react to other types.
- Allergy to shellfish is quite common; people who are sensitive can react to a number of different types of shellfish.
- Food served in seafood or other restaurants may be cross contaminated with fish or shellfish during storage, preparation and cooking.
- It is possible for an allergic reaction to occur from cooking odours or handling of shellfish.
- Any foods that have been cooked in a deep fryer or on a BBQ or flat grill where fish has also been cooked may also cause an allergic reaction.

Effects of these foods on sufferers

Severe allergic reaction—anaphylaxis

- Difficulty and/or noisy breathing
- Swelling of the tongue
- Swelling or tightness in the throat

- Difficulty talking or hoarse voice
- Wheeze or persistent cough
- Loss of consciousness and/or collapse
- Pale and floppy (young children)

Mild to moderate allergic reaction

- Tingling of the mouth
- Hives, welts or body redness
- Swelling of the face, lips, eyes
- Vomiting, abdominal pain

In the FSANZ Food Standards Code (FSC), fish means 'any of the cold-blooded aquatic vertebrates and aquatic invertebrates including shellfish, but does not include amphibians and reptiles'. Seafood means 'all aquatic vertebrates and aquatic invertebrates intended for human consumption, but excludes amphibians, mammals, reptiles and aquatic plants'.

However, these definitions can be confusing. Allergy specialists usually differentiate fish from crustaceans and Food Standards also separates these allergens into two separate categories.

References

- Food Standards Australia New Zealand Food Standards Code (www.foodstandards.gov.au)
- Food Allergy & Anaphylaxis Alliance (www.foodallergyalliance.org)
- Anaphylaxis Australia (www.allergyfacts.org.au)
- The New Additive Code Breaker: Everything you should know about additives in your food by Maurice Hanssen (Lothian 1991, ISBN: 0850914779)
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- Australasian Society of Clinical Immunology and Allergy—Education Resources (www.allergy.org.au)



Products that may or do contain fish or seafood ingredients:

400: Alginic acid 401: Sodium alginate 402: Potassium alginate 403: Ammonium alginate 404: Calcium alginate 405: Propylene insosinate 406: Agar 407: Carrageenan 631: Disodium inosinate/ insosinate Asian foods belachan (shrimp paste) bouillabaisse caesar salad dressing caviar cod liver oil fish sauce gelatin nam pla (Thai fish sauce) omega 3 supplements oyster sauce prawn crackers sashimi seafood extender (surimi, crab sticks) sushi tempura Worcestershire sauce

Important: The list above is not a complete list of foods and ingredients to avoid. It is intended to be used as a helpful guide.



Allergens— Milk and milk products

Most sufferers of milk allergies are young children below the age of four. Some people do not outgrow this allergy.

Be aware that some non-dairy products contain dairy. You must always check the list of ingredients to make sure.

Effects of these foods on sufferers

Severe allergic reaction—anaphylaxis

- Difficulty and/or noisy breathing
- Swelling of the tongue
- Swelling or tightness in the throat
- Difficulty talking or hoarse voice
- Wheeze or persistent cough
- Loss of consciousness and/or collapse
- Pale and floppy (young children)

Mild to moderate allergic reaction

- Tingling of the mouth
- Hives, welts or body redness
- Swelling of the face, lips, eyes
- Vomiting, abdominal pain

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Milk and milk products can be labelled as:

beverage whitener caseinate milk powder milk solids

skim milk powder whey whey powder

The following food products are derived from milk or milk products:

butter buttermilk cheese cheese spreads cottage cheese cream crème fraiche ghee ice cream infant formula milk drinks (hot chocolate, milkshakes, some coffee drinks) powdered coconut milk sour cream yoghurt

Some of the foods that contain milk products include:

beverage whitener biscuits bread, foccacias, etc. crumbed foods dessert sauces fruit juice manufactured foods margarine milk chocolate, white chocolate most desserts colourings and natural flavourings soup mixes



Allergens— Soy and soy products

Soy allergy is most common in infants. As with other allergies, the reactions can include skin reactions and breathing difficulties.

Soy products are used in many processed foods. It is important to read labels of all ingredients in a dish carefully. Many vegetable oils have a 'May contain soy bean oil' warning, or are actually derived from soy beans. (Soy beans are vegetables.) One of the most common soy derived product is lecithin (322).

Effects of these foods on sufferers

Severe allergic reaction-anaphylaxis

- Difficulty and/or noisy breathing
- · Swelling of the tongue
- Swelling or tightness in the throat
- Difficulty talking or hoarse voice
- Wheeze or persistent cough
- Loss of consciousness and/or collapse
- Pale and floppy (young children)

Mild to moderate allergic reaction

- Tingling of the mouth
- · Hives, welts or body redness
- Swelling of the face, lips, eyes
- Vomiting, abdominal pain

References

- Food Standards Australia New Zealand Food Standards Code (www.foodstandards.gov.au)
- · Food Allergy & Anaphylaxis Alliance (www.foodallergyalliance.org)
- Anaphylaxis Australia (www.allergyfacts.org.au)
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- Australasian Society of Clinical Immunology and Allergy—Education Resources (www.allergy.org.au)



The following foods can contain soy:

- baked goods baked items batters bread carob cereals chocolate chocolate biscuits
- confectionary dessert mixes lecithin malted milk powder margarine milk powder oils sausages

Soy products include:

bean curd hydrolysed vegetable protein miso oil spray cans some Asian sauces soy bean paste soy flour soy protein soy sauce soya tempeh textured vegetable protein (TVP) tofu vegetable gums





Allergens— Sesame seeds and sesame products

Products that are derived from sesame seeds are found in many processed products. If you have a customer who is allergic to sesame seeds, it is important that you check ingredients labels carefully to see if sesame seed products are contained. Sesame can be called by other names on ingredient lists as listed in the box across.

Effects of these foods on sufferers

Severe allergic reactio—anaphylaxis

- Difficulty and/or noisy breathing
- Swelling of the tongue
- Swelling or tightness in the throat
- Difficulty talking or hoarse voice
- Wheeze or persistent cough
- Loss of consciousness and/or collapse
- Pale and floppy (young children)

Mild to moderate allergic reaction

- Tingling of the mouth
- Hives, welts or body redness
- Swelling of the face, lips, eyes
- Vomiting, abdominal pain

References

- Food Standards Australia New Zealand Food Standards Code (www.foodstandards.gov.au)
- · Food Allergy & Anaphylaxis Alliance (www.foodallergyalliance.org)
- Anaphylaxis Australia (www.allergyfacts.org.au)
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- Australasian Society of Clinical Immunology and Allergy—Education Resources (www.allergy.org.au)



Sesame seeds and sesame products include:

benne/benne seed/ benniseed gingelly seeds gingelly oil hommus seeds

sesamol/sesamolina sesamum indicum sim sim tahina/tahini til

Sesame seeds are often found in the following foods:

Asian foods bakery products cereals crackers crumbed foods dips dressings halva herbs margarine marinades Middle Eastern foods health bars paté

pretzels processed meats and sausages sauces seasonings sesame oil soups spice blends (e.g. dukkah) spreads tahini tempeh vegetable burgers vegetable oil





Intolerance— Sulphites

The major function of sulphites is to preserve food and inhibit browning reactions. Sulphites slow down the micro organisms that could otherwise spoil foods and can be added to cut fruit and vegetables to prevent browning once cut or peeled.

Identifying sulphites

Sulphites are generally labelled using their food identification number. Look for the following numbers on food labels:

- 220 Sulphur dioxide
- 221 Sodium sulphite
- 222 Sodium bisulphite
- 223 Sodium metabisulphite
- 224 Potassium metabisulphite
- 225 Potassium sulphite
- 226 Calcium sulphite *
- 227 Calcium hydrogen sulphite *
- 228 Potassium bisulphite
- * (not permitted in Australia)

References

- Food Standards Australia New Zealand Food Standards Code (www.foodstandards.gov.au)
- Food Allergy & Anaphylaxis Alliance (www.foodallergyalliance.org)
- Anaphylaxis Australia (www.allergyfacts.org.au)
- The New Additive Code Breaker: Everything you should know about additives in your food by Maurice Hanssen (Lothian 1991, ISBN: 0850914779)
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Sulphites can be found in the following foods:

Very high levels

dried fruit lemon and lime juice UHT (not frozen) wine molasses sauerkraut juice grape juice smallgoods sausages

High levels

dried potato products (instant mashed potato) wine vinegar gravies and sauces candied fruit fruit toppings corn starch maple syrup pectin jams

Moderate levels

seafood and shellfish sauerkraut pickled food frozen potato products corn syrup



Intolerances— Gluten and dairy products

What is a food intolerance?

Some people have a food intolerance, where they develop adverse reactions to certain foods but are not allergic to the food.

Food intolerance is associated with symptoms occurring after eating a substance which a sufferer's body cannot handle. The sufferer's digestive system does not produce sufficient quantities of a particular chemical needed to break down the food and aid digestion. Alternatively, the food substance causes a reaction directly.

The most common food intolerances are gluten and dairy. Foods that contain gluten and/or dairy products can cause intolerance in some people.

Are food intolerances a serious health risk?

On the surface it appears that some intolerances are lifestyle threatening rather than life threatening. But if they are left untreated, food intolerances can lead to serious health risks. It should also be noted that some people have more than one food intolerance. Changing a person's diet easily controls food intolerance.

Diets such as gluten free, dairy free, yeast free, fructose free or wheat free have been very successful in eliminating symptoms. If properly managed, such diets bring sufferers back to full health.

Coeliac disease/Gluten intolerance

Coeliac disease may also be called gluten intolerance or gluten sensitivity. It is an auto-immune disease—the body's immune system attacks itself when gluten is digested.

People with coeliac disease are unable to digest gluten (a protein) found in wheat, rye, barley and oats. This protein actually damages the lining of the small intestine of sufferers of coeliac disease, causing damage that flattens out the tiny villi (finger-like protrusions that provide most of the surface area for nutrient absorption in the stomach).

When a person with coeliac disease eats just a crumb of bread, damage occurs to the lining of their small intestine, which stops the body from absorbing nutrients. In the long term, this can lead to unexplained weight loss, chronic anaemia, osteoporosis and—eventually—malnutrition.

The type of reaction can be similar to a food intolerance—stomach pain, nausea, diarrhoea and/or vomiting. This reaction can happen immediately after eating a food containing gluten or could be delayed for several hours.

It is not life threatening and does not cause anaphylaxis. The only treatment for coeliac disease is a strict life-long gluten free diet. It is not a fad diet, although you will find people choose to follow this diet for non medical reasons (and not always stringently).



Ingredients that contain gluten include:

baking powder, derived from wheat sources barley breakfast cereal bulgur cornflour prepared from wheat cous cous cracked wheat malt matzo oatmeal rye semolina soy sauce wheat

Foods that contain can gluten include:

batters for frying beer biscuits bread cakes casseroles confectionary crumbed products (cutlets, parmigiana, etc.) crumble toppings custards gnocchi gravy hamburgers, rissoles and meatloaf icing sugar mixture malt vinegar noodles

pancakes pasta pastry (spring rolls, samosas, dim sims, etc.) pastry items pie fillings pita bread puddings sauces scones scotch and whiskey soups stuffing (in roasted meats) waffles wraps (roti, burritos, etc.)

Important: The list above is not a complete list of foods and ingredients to avoid. It is intended to be used as a helpful guide.



What is a gluten free diet?

According to Food Standards Australia New Zealand, a gluten-free diet is defined as a diet having no detectable gluten, using current test methods.

To guarantee that a food item is glutenfree, you must be able to ensure that there is no gluten present. Before making this guarantee, consider some of the cross-contamination issues described on the page.

What are the alternatives?

The following foods **do not** contain gluten: buckwheat corn or maize-derived products legumes most dairy products most oils potato rice (including glutinous rice) tapioca

The following products **do not** contain gluten, even if **derived from wheat**: caramel (150) dextrose fructose glucose glucose syrup

Dairy (lactose) intolerance

Some people are **intolerant** to milk, but they are not **allergic** to milk. It is important to distinguish between people who have lactose intolerance and those who have a milk protein (casein) allergy. Individuals who are intolerant to milk are called lactose intolerant. This is caused by the lack of the enzyme lactase. Lactase assists in the digestion of lactose (the sugar in milk).

The symptoms of lactose intolerance are similar to a milk allergy. Symptoms can include diarrhoea, nausea, stomach pain, bloating, flatulence and malabsorption. Dairy intolerance does not cause rashes or anaphylaxis.

References

- Food Standards Australia New Zealand Food Standards Code (www.foodstandards.gov.au)
- Food Allergy & Anaphylaxis Alliance (www.foodallergyalliance.org)
- Anaphylaxis Australia (www.allergyfacts.org.au)
- The New Additive Code Breaker: Everything you should know about additives in your food by Maurice Hanssen (Lothian 1991, ISBN: 0850914779)
- The Food Intolerant Consumer (www.foodintol.com)
- Australasian Society of Clinical Immunology and Allergy—Education Resources (www.allergy.org.au)

The following foods may contain milk or milk products:

biscuits butter buttermilk caseinate cheese cheese spreads colourings cottage cheese cream crème fraiche desserts dessert sauces formula milk powder ghee margarine milk drinks (hot chocolate, milk shakes, some coffee drinks) milk powder natural flavours sour cream whey and whey powder yoghurt

Important: The list above is not a complete list of foods and ingredients to avoid. It is intended to be used as a helpful guide.



Allergy and Intolerance— Cross-contamination and labelling

Cross contamination

The preparation and storage of food items will need to be considered if a customer identifies themselves as an allergy or intolerance sufferer. Food ingredients as well as the preparation utensils and equipment that are used to prepare a meal for a sufferer must have had no contact with any other foods or preparation items that are used normally. Cooking equipment that is normally used for other food items must be thoroughly cleaned or have not been used previously. It may be better to prepare a special diet meal in a separate frypan, rather than on the flat grill. Clean utensils and chopping boards should also be used in the preparation of special diets.

The following cross-contamination risks should be considered:

barbecues and char grills buffets or smorgasbords deep fryers dry storage containers that contain more than one ingredient flat grills leaning across ingredients. sandwich makers shared chopping boards, utensils, colanders and strainers splashing from one dish to another spreads (i.e. margarine) traces on hands, gloves, aprons, cloths, and equipment like knives, spoons, spatulas washing-up water

If you can't guarantee that you can prepare a strict allergy- or intolerancefree meal, you must notify the customer. Explain to them your setup.

An example may be a small take-away shop that only has one deep fryer and one fridge. There is a possibility that cross-contamination may occur. You could tell your customer that you will do everything in your power to prepare a specific meal, but given the space constraints there is a small chance that there will be traces of other ingredients present in their meal.

Never promise something that you can't deliver. Explain the precautions you are taking to the customer and let them decide for themselves.

Ingredient labelling

An ingredient means any substance, including a food additive, used in the preparation, manufacture or handling of a food. When labelling these ingredients, they must be listed in descending order of ingoing weight (the statement must begin with the ingredient in the largest quantity and end with the ingredient in the smallest quantity). The names of ingredients should be accurate and sufficiently detailed to ensure that they are not false, misleading or deceptive, or likely to mislead or deceive.

Do you know that these include what are known as processing aids? Processing aids are what are referred to in the above definition in the terms preparation, handling and manufacture. They can include oils that are used during cooking that may not be a direct ingredient or flour used to help prepare a food item.

Food retailers who prepare and sell their food items from the same premises are not required to label their products, however the same information must be 'provided to the purchaser upon request'.

The FSANZ Food Standards Code requires the retailer of a prepared food item, to provide the requested information verbally or in writing. Retailers must have this information available for all staff to access, so that all requests can be answered accurately. This means that standard recipes are listed and followed; in case the person who made a particular product (i.e. a baker on overnight shift) is not available at the time the request for information is required (i.e. in the afternoon when the baker is asleep).

References

- Food Standards Australia New Zealand Food Standards Code (www.foodstandards.gov.au)
- Food Allergy & Anaphylaxis Alliance (www.foodallergyalliance.org)
- Anaphylaxis Australia (www.allergyfacts.org.au)
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