Allergen and intolerance
Fact sheets for food businesses


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## Contents

1 Allergens-Peanuts, nuts and their products 1
2 Allergens-Egg and egg products 2
3 Allergens-Fish, crustaceans and their products 3
4 Allergens-Milk and milk products 4
5 Allergens-Soy and soy products 5
6 Allergens-Sesame seeds and sesame products 6
7 Intolerance-Sulphites 7
8 Intolerances-Gluten and dairy products 8
9 Allergy and intolerance-Cross-contamination and food labelling 10

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# AllergensPeanuts, 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 reactionanaphylaxis

- 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 AllergyEducation Resources (www.allergy.org.au)

| The following | Tree nuts include: |
| :--- | :--- |
| foods can | almonds |
| contain peanuts: | brazil nuts |
| Asian meals | cashews |
| baked goods | chestnuts |
| biscuits (sweet or dry) | hazelnuts |
| bouillon | macadamia nuts |
| breakfast cereals | pecans |
| cakes | pine nuts |
| chocolates | pistachios |
| nougat | walnuts |
| health bars | The following |
| hydrolysed vegetable | foods can or do |
| protein | contain nuts: |
| ice cream | Amaretto (almond |
| kebabs | liqueur) |
| marzipan | Asian meals |
| muesli | biscuits (sweet and |
| natural flavourings | dry) |
| pastry goods | breakfast cereals |
| peanut butter | cakes |
| peanut oil (arachis oil) |  |
| praline | chocolates |
| sauces (gado gado, | gravy |
| pesto, satay, etc.) | health bars |
| soup |  |
| spaghetti sauce | ice cream |
| spring rolls | muesipan |
| vegetarian dishes | nougat |
| vegetable oil | sauces (pesto, etc) |
| wontons | 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
- 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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- The Food Intolerant Consumer (www.foodintol.com)
- Australasian Society of Clinical Immunology and Allergy—Education Resources (www.allergy.org.au)


## Egg and egg products can be labelled

 as follows:| albumen | livetin |
| :--- | :--- |
| albuminate | ovalbumin |
| egg powder | ovomucin |
| egg solids | ovomucoid |
| egg white | ovovitellin |
| egg yolk | silici |
| globulin | vitellin |

Products that can contain eggs include:

| almond bread | hamburgers, rissoles |
| :--- | :--- |
| batters (pancakes, for | and meatloaf |
| deep frying, etc) | jellied meat <br> biscuits <br> macaroons |
| brioche | malted drinks |
| cake mixes | marshmallows |
| cakes | meringues |
| choux pastry | mousses |
| consommé | omelettes |
| crumbed products | pancakes and pikelets |
| (cutlets, parmigana, | pavlovas |
| etc) | puddings |
| custard | quiche |
| dessert mixes | sausages |
| doughnuts | slices (hedgehog, |
| egg-based dressings | lemon slice, etc.) |
| (mayonnaise, tartare) | soufflés |
| egg noodles | waffles |
| egg-based sauces | wines (selected) |
| (hollandaise, |  |
| béarnaise) |  |
| glazed rolls or pastries |  |

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.

## Fact sheet 3

## AllergensFish, 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)
- The Food Intolerant Consumer (www.foodintol.com)
- Australasian Society of Clinical Immunology and Allergy-Education Resources (www.allergy.org.au)


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

## Fact sheet 4

## Allergens <br> 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


## 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)



## Milk and milk products can be

 labelled as:| beverage whitener | skim milk powder |
| :--- | :--- |
| caseinate | whey |
| milk powder | whey powder |

milk solids

## 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

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 <br> 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)
- 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 soy:
baked goods confectionary
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 | soy protein |
| :--- | :--- |
| hydrolysed vegetable | soy sauce |
| protein | soya |
| miso | tempeh |
| oil spray cans | textured vegetable |
| some Asian sauces | protein (TVP) |
| soy bean paste | tofu |
| soy flour | vegetable gums |

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.

## Fact sheet 6

## Allergens- <br> 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)
- 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)


## Sesame seeds and sesame products

 include:| benne/benne seed/ | sesamol/sesamolina |
| :--- | :--- |
| benniseed | sesamum indicum |
| gingelly seeds | sim sim |
| gingelly oil | tahina/tahini |
| hommus | til |
| seeds |  |

## Sesame seeds are often found in the

 following foods:| Asian foods | pretzels |
| :--- | :--- |
| bakery products | processed meats and |
| cereals | sausages |
| crackers | sauces |
| crumbed foods | seasonings |
| dips | sesame oil |
| dressings | soups |
| halva | spice blends |
| herbs | (e.g. dukkah) |
| margarine | spreads |
| marinades | tahini |
| Middle Eastern foods | tempeh |
| health bars | vegetable burgers |
| paté | vegetable oil |

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.

## Fact sheet 7

## IntoleranceSulphites



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

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.

The Place To Be

## Intolerances- <br> 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 | cracked wheat malt matzo |
| barley | oatm |
| breakfast cereal | rye |
| bulgur | semoli |
| cornflour prepared | soy sauce |
| from wheat cous cous | wheat |
| Foods that contain can gluten include: |  |
| batters for frying | pancakes |
| beer | pasta |
| biscuit | pastry (spring rolls, |
| bread | samosas, dim |
| cakes | sims, etc.) |
| asseroles | pastry items |
| confectionary | pie fillings |
| crumbed products | pita bread |
| (cutlets, | puddings |
| parmigiana, etc.) | sauces |
| crumble toppings | sc |
| ard | scotch and whisk |
| gnocchi | soups |
| gravy | stuffing (in roasted |
| hamburgers, rissoles and meatloaf | meats) |
| meatloar | wraps (roti, burritos, |
| t vinegar | 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)
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- 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)
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