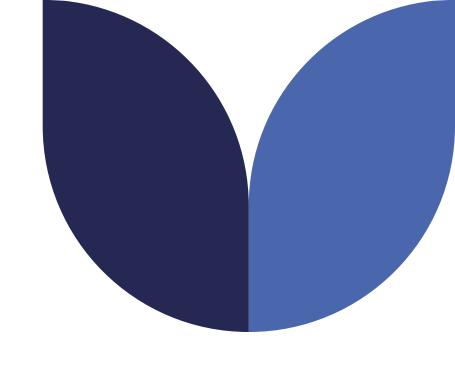
Risk Categorisation of Ingredients

Module 4



Learning Objectives

At the end of this module, you should be able to:

- ✓ Understand the importance of product specifications & labels
- ✓ Recognise the different risk categories
- ✓ Recognise the required documents needed for corresponding risk categories
- ✓ Identify the appropriate category for a particular ingredient

Clause in Muis Halal Certification Conditions

All ingredients and food products prior to purchase shall be substantiated with **product specifications or labels**. In addition, ingredients and food products which are categorised as Medium-Low, Medium-High or High Halal risk will require additional documents for approval (refer to Annex A):

(a) Medium-Low

- Muis general questionnaire (if necessary)

(b) Medium-High

- Muis general questionnaire;
- Muis-recognised Halal certificate* or laboratory analysis report by an accredited laboratory (if necessary)

(c) High

- Halal certificates* from Muis and/or Muis-recognised Halal certification bodies.

Imagine this...

You are sick in bed, and a friend offered to cook for you with whatever that is in your fridge. She opened the fridge and saw this.



How will she know if there is tofu in the fridge for soup?

 She can check the food items based on the name reflected on the product labels.

How will she know if the food in the fridge is alright to eat?

 She can check the expiry dates on the different product labels or packaging.

Imagine this...

You are sick in bed for the past week. Your friend offered to get some groceries for you to top up your fridge. You reminded your friend that you are highly allergic to nuts.

Contains Gluten containing ingredients, Soy and Tree Nuts as indicated in bold type.
Whole Grain Oats (53%), Glucose, Chicory Root Fibre, Sunflower Oil, Brown Sugar, Almond Meal, Honey, Blueberry Fruit Pieces [Blueberry Puree (0.5%), Wheat Fibre], Currants, Strawberry Fruit Pieces [Strawberry Puree (0.3%), Wheat Fibre], Glycerine, Tapioca Starch, Mineral (Calcium Carbonate), Wheat Protein, Emulsifier (Soy Lecithin), Mineral Salts (450, 500) (Wheat), Flavour. May contain Peanuts, Egg, other Tree Nuts, Milk, Sesame, Sulphites and Lupin.

How will she know if the groceries she is buying does not contain any nuts or traces of it?

She can check the food items by looking at its list of ingredients (product specification).

Product Specifications & Labels

With proper product labels or product specifications, it is easier to

- ✓ Identify the food PRODUCT NAME
- ✓ Identify the ingredients in the food PRODUCT SPECIFICATION
- ✓ Identify where it was manufactured MANUFACTURING ADDRESS

The food item can then be checked based on its ingredients or traced back to its supporting document to determine its Halal status.

ALL FOOD PRODUCTS PRIOR TO PURCHASE SHALL BE SUBSTANTIATED WITH PRODUCT SPECIFICATIONS OR LABELS

Types of Halal Risk Categories

Low

Primarily derived from non-animal sources, which are unprocessed or minimally processed. It also includes synthetic chemicals.

Medium-Low

Primarily derived from non-animal sources that go through further processing without any animal-based additives.

Medium-High

Have been highly processed, may involve fermentation or have animal-derived substances added.

High

Contain flavouring, gelatine or meat and its derivatives.

DOCUMENTS REQUIRED

General questionnaire (if necessary)

General questionnaire

OR

Laboratory analysis report (if necessary)

ÖR

Muis-recognised Halal certificate*

Muis-recognised Halal certificate*

*All items to be supported with product specifications or labels.

Risk Category: LOW

Low

Primarily derived from non-animal sources, which are unprocessed or minimally processed. It also includes synthetic chemicals.

MINIMALLY PROCESSED is limited to simple physical processes such as cutting, filleting, freezing, grinding and peeling. There should be no addition of other items to the food.



Vegetables



Fruits



Pure Seafood



Rice



Salt & Sugar



Synthetic Chemicals



Spices



Legumes & Lentils



Food for thought
Are ready-to-eat
fruits considered low risk? YES

*All items to be supported with product specifications or labels.

Risk Category: MEDIUM-LOW

Medium-Low

Primarily derived from non-animal sources that go through further processing without any animal-based additives.

DOCUMENT(S) REQUIRED

General questionnaire (if necessary)



Soy Beans Products



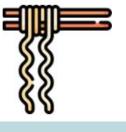
Flour



Synthetic Vinegar



Made from industrially produced acetic acid



Noodles



Pasta



Food Additives (excluding animal-derived E400s)

Food for thought

Pure vinegar is

naturally fermented.

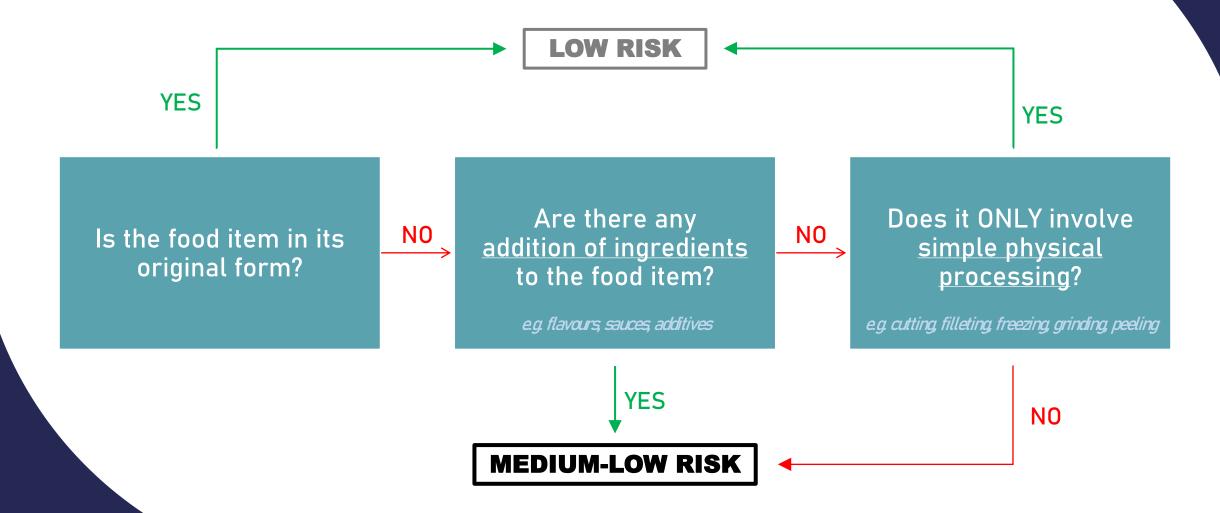
Hence, it is "riskier"

and is considered

MEDIUM-HIGH risk.

*All items to be supported with product specifications or labels.

LOW or MEDIUM-LOW How to know?



Risk Category: MEDIUM-HIGH

Medium-High

Have been highly processed, may involve fermentation or have animalderived substances added.



Canned Foods



Yeast



Enzymes



Pure Vinegar



Made from plant sources such as fruits and malt



Dairy Products



Cheese

DOCUMENT(S) REQUIRED

General questionnaire

OR

Laboratory analysis report (if necessary)

OR

Muis-recognised Halal certificate*

*All items to be supported with product specifications or labels.



Food Additives (animal-derived E400s)

Food for thought

Cheese is

considered as

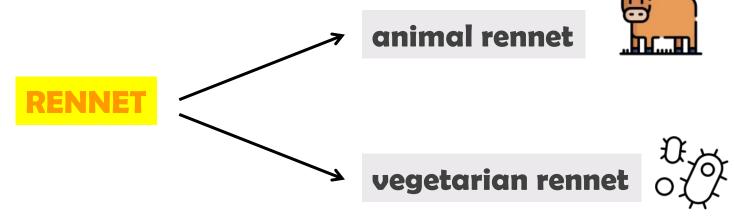
MEDIUM-HIGH risk

due to RENNET.

CHEESE & RENNET

During the cheese-making process, rennet is used to set the cheese.

There are 2 main types of rennet:



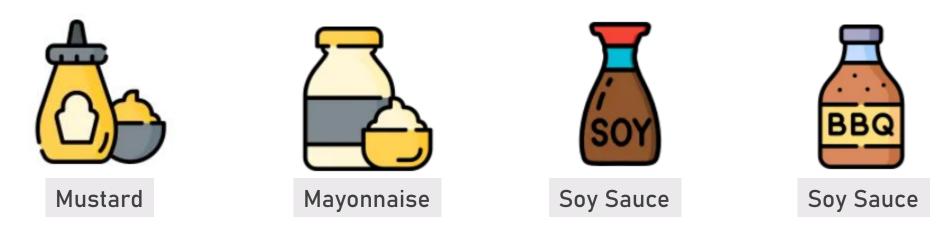
Hence, it is important to determine the <u>source of the rennet</u> that is used for the cheese.

This is why cheese is categorised as MEDIUM-HIGH.

SAUCES

Sauces, in general, contain additives and processing aids.

Examples of sauces:



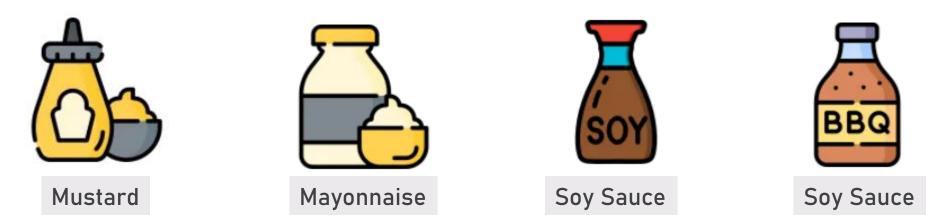
Sauces and condiments are deemed as highly processed food items. For some, it may involve fermentation such as soy sauce.

This is why sauces are categorised as MEDIUM-



Sauces, in general, contain additives and processing aids.

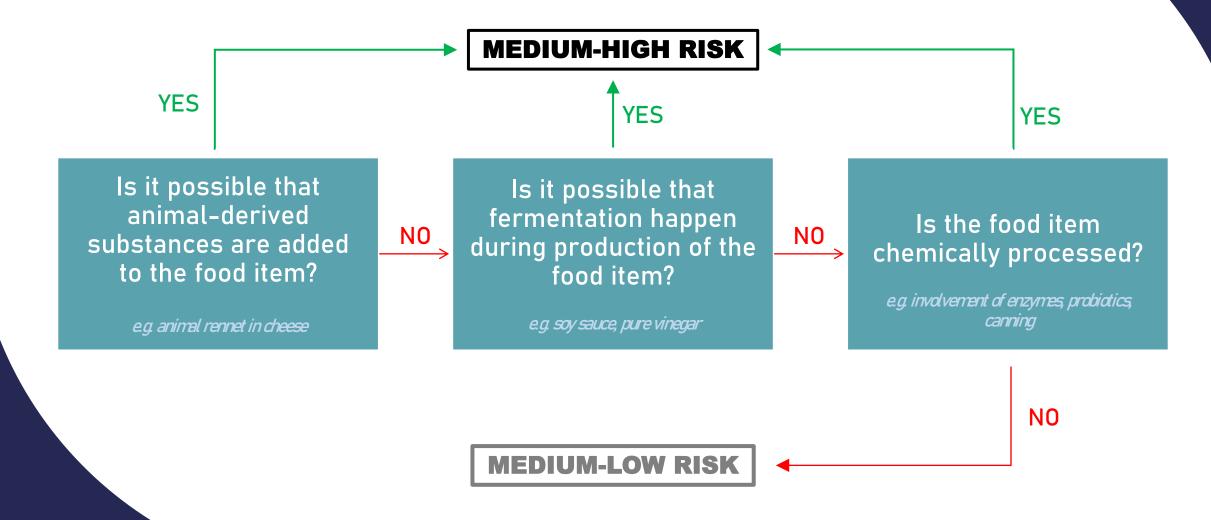
Examples of sauces:



Sauces and condiments are deemed as highly processed food items. For some, it may involve fermentation such as soy sauce.

This is why sauces are categorised as MEDIUM-HIGH.

MEDIUM-LOW or MEDIUM-HIGH How to know?



Risk Category: HIGH

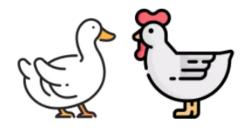
High

Food that contains flavouring, gelatine or meat and its derivatives.

DOCUMENT(S) REQUIRED

Muis-recognised Halal certificate*





Poultry & Poultry-based Items





Red Meat &
Red Meat-based
Items

Food for thought

Chicken seasoning may

not necessarily be

HIGH risk as some do

not contain any

meat-based extract.

*All items to be supported with product specifications or labels.

Natural Ethanol in Halal Food Flavouring

A Fatwa (religious order by Mufti) on the permissibility of ethanol:

The Fatwa Committee has received a question from the Halal Certification Strategic Unit, Muis, on the use of natural ethanol in halal food flavouring/coloring.

After research and gathering information on ethanol product, the Fatwa Committee finds that the ethanol content in food flavorings (which are used as solvents) is less than 0.5%. This percentage is not at the intoxicating level.

The ethanol used is not produced from prohibited products like khamr. Hence, it is not considered impure.

The permissibility of using ethanol is exclusively for the purpose of flavoring. Ethanol used in a food or beverage product not for the purpose of flavoring is not permitted.

The Fatwa Committee opines that the use of ethanol (natural and synthetic) as a solvent is allowed as long as it is not produced from prohibited products. The content of ethanol in the flavoring should not exceed 0.5%, and the content of ethanol in the end-product should not exceed 0.1%.

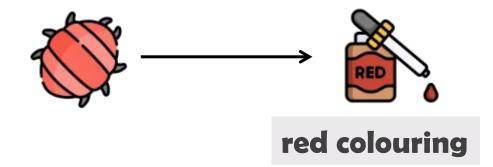
Source: https://www.muis.gov.sg/officeofthemufti/Fatwa/English-Ethanol

ETHANOL CONTENT

Flavours → not exceeding 0.5% End-product → not exceeding 0.1%

Food colouring from cochineal (carmine)

Carmine (E120) is used as red food colouring. It is extracted from an insect, cochineal.



Based on a fatwa issued by Muis, the use of carmine red food colouring is <u>ALLOWED</u>.

It belongs to the <u>LOW</u> Halal risk category.

Practice Time!

- Which of the following products is considered as medium-low risk?
 - a. Olive oil
 - b. Ghee
 - c. Butter
 - d. Margarine

Answer: A. Olive oil is extracted by further processing and does not contain any animal-based additives. On the other hand, ghee and butter are considered dairy products and margarine is a chemically processed product.

Practice Time!

2 What is the risk categorisation for the food items shown below?



Answer: Yeast (Medium-High), Sugar (Low), Flour (Medium-Low), Butter (Medium-High).

Conclusion

Product specifications and labels are important as it helps to identify the products, its ingredients and place of manufacture. This will allows for traceability between the product and its supporting document.

Halal risk categorisation depends on **level of processing** and **type of substances added** to a particular food. This will determine the type of documents required.

In the next module, we will look at traceability and verification of ingredients.