Categorisation of root causes associated with incidents notified

A draft categorisation system originating from the Efficacy of Recalls Project has been used to classify the root causes of incidents. The '**PEMPEM**' model uses 6 commonly observed areas associated with food production: **P**rocess, **E**quipment, **M**aterial, **P**eople, **E**nvironment and **M**ethod; with associated sub-categories providing further descriptive information regarding the root cause type.

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Sub-categories
Contamination: Segregation failure
Distribution Error
Formulation / Assembly Error
HACCP: Non-compliance / failure
Labelling Verification Checks - absent / failure
Packaging: Defective / incorrect
Quality Control Checks: Absent / inadequate / incomplete
Other (please specify)
Machinery: Failure / incorrect use / damage
Calibration: Absent / inaccurate
Contamination: Cleaning absent / failure
Computer / IT Issues
Printing Issues e.g. Barcodes
Routine Maintenance: Absent / inadequate / incorrect
Other (please specify)
Composition: Incorrect ingredients / substitution
Ingredient Cross-contamination
Ingredient Hygiene Controls: Absent / inadequate
Ingredient Specification: Absent / incorrect / non-compliance
Other (please specify)
Procedures Not Followed: One-off operator error / intentional
Training: Absent / incomplete
Understaffing / Sickness
Other (please specify)
Access By Pests
Design: Inadequate layout / space
Ingredient / Product Storage Controls: Absent / inadequate / inappropriate
Lighting: Inadequate
Temperature Control: Absent / inadequate
Other (please specify)
Cleanliness or Sanitation: Absent / failure / inadequate
Ingredient Specifications: Absent / non-compliance / incorrect
Labelling Declaration: Absent / incomplete / incorrect
Risk Analysis: Absent / inadequate
Work Instructions: Absent / inadequate
Other (please specify)

Classification of incidents by suspected or actual concern (Incident Type)

Incident notifications are classed according to the potential hazard that is under investigation or that is ultimately of concern. Therefore, even where no risk to the safety, quality or integrity of food and feed is identified, the incident will still be classified by the potential issue of concern.

The summarised RCA data refers to the following commonly observed Incident Types.

Incident Type	Examples
Allergens	Allergens incidents concern the undeclared presence of allergens, either as cross-contamination or undeclared ingredients. Includes all allergens incidents resulting from labelling issues and allergic reactions with unknown causes.
Foreign Bodies	Physical contamination incidents involving foods contaminated with e.g. Animal Origin (e.g. bone), Glass, Hair, Metal, Paper & Cardboard, Plastic, Pests (e.g. mites, rats, mice, etc.), Rubber, Stone, Wood & Other
Pathogenic Micro-organisms	Microbiological incidents relating to suspected, possible or actual contamination by harmful bacteria, viruses or fungi. They also include concerns about measures to control the risk from pathogenic microorganisms.