

Important to meet targets on residues in milk – maintain markets, food safety, image of Irish milk

TCM – Trichloromethane

Target in milk: 0.0015 mg/kg

Target in butter: <0.03 mg/kg

Source: Chlorine products used for cleaning equipment



Prevent by:

- Adequate machine rinse (14 litres unit) & bulk tank rinse
- Use correct amount of product with <3.5% chlorine

Chlorates

Target in milk: <10 µg/kg

Target in milk powder: <50 µg/kg

Source: By-product of chlorine developed during storage



Prevent by:

- No out of date products
- Store out of direct sunlight
- Do not stockpile detergents
- Follow recommended cleaning routines

- Significance issue:
- EU Commission proposing a limit of 0.01 mg/kg of food
- Dairy products could exceed if not careful
- Important for dairy ingredients for Specialised Nutritional Powders including infant milk formula and sports nutrition foods

Take home message

Chlorine free cleaning protocols necessary