

Path to Phasing out Industrially-Produced Trans Fats from Bakery and Confectionery Foods

A Manufacturer's Guide for iTFA Replacement

GUIDE FOR ITFA REPLACEMENT

A practical guide compiled to help food manufacturers around the world begin their journey toward iTFA elimination

INTERNATIONAL FOOD & BEVERAGE ALLIANCE



WITH CONTRIBUTIONS FROM





ABOUT IFBA

ifba INTERNATIONAL

FOOD & BEVERAGE

Since 2008, the International Food & Beverage Alliance (IFBA) has convened leading global food and non-alcoholic beverage companies to empower consumers to eat balanced diets and live healthier lives.



ABOUT AOCS



Founded in 1909, the American Oil Chemists Society (AOCS) is an international scientific society with more than 4,500 members in over 90 countries. AOCS offers a forum for exchange of ideas, information, and experience among its members and others who have a professional interest in advancing the science and technology of fats, oils, and related materials.

ABOUT CARGILL



For more than 155 years, Cargill has helped farmers grow more, connecting them to broader markets. As one of the world's top producers and distributors of agricultural products, Cargill is continuously developing products that give consumers just what they're seeking, advancing nutrition, food safety and sustainability.

WHY PHASE OUT ITFA?

Fats and oils are important ingredients in food products around the world. They are:

- Calorie dense
- Source of essential fatty acids
- A useful ingredient that plays a functional role in giving food products texture, structure, and flavor

Scientific evidence has indicated that **industrially producted trans fats** (iTFAs) from partially hydrogentated fats and oils pose a risk of **coronary heart disease**.

- Health officials advocate for reduction in iTFA intake
- Several countries and regions have introduced regulations to limit iTFA content in food
- WHO has initiated an action framework (REPLACE) for the elimination of iTFA from food supplies globally by 2023



iTFAs are used to make products like fried foods, commercial baked goods, and margarine

IFBA & THE WORLD HEALTH ORGANIZATION

- 2019: IFBA members committed to align with WHO's recommendation for a maximum iTFA threshold not exceeding 2 g of iTFA per 100 g of fat or oil by 2023
- As part of that commitment, IFBA committed to support other businesses in doing the same by:
 - working in collaboration with governments, health authorities, civil society and food and beverage industry associations
 - sharing best practices and helping guide other companies, particularly Small and Medium Enterprises





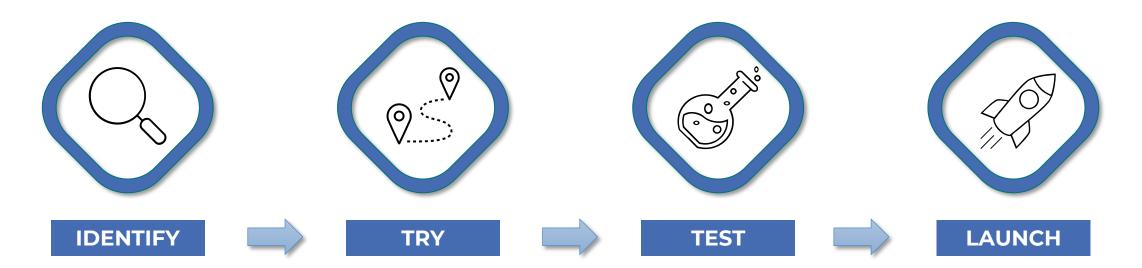
GUIDE FOR ITFA REPLACEMENT

- A practical guide compiled to help food manufacturers around the world – particularly SMEs - begin their journey toward **iTFA elimination** and replacement of partially hydrogenated oils (PHOs)
- A technical document that highlights the challenges of **oil replacement solutions** while keeping public health objectives front and centre
- Focused on bakery and confectionery prodcuts

	 > High PUFA oil with antioxidants > High oleic oils, moderate PUFA 	 Hardstocks interesterified with high PUFA oils Hardstocks blended with high PUFA oils 	Not available
	> High oleic oils with no/low PUFA	 Hardstocks interesterified with low PUFA oils Hardstocks blended with low PUFA oils 	 Hardstocks interesterified with some PUFA oils Hardstocks blended with some liquid oils Hardstocks interesterified with some MUFA oil
POSITIVE HEALTH IMPACT (Lower SFA + more PUFA)	Not recommended: > Liquid palm fractions > Animal or tropical fats	Not recommended: > Semi-solid palm fractions > Animal or tropical fats	Not recommended: > Solid palm fractions > Fully hydrogenated oil > Coconut oil > Palm kernel oil
	LIQUID	SEMI-SOLID	SOLID

Figure 1 Summary of partially hydrogenated oil (PHO) alternatives by health impact and solid fat functionality

FROM THE GUIDE: STEPS FOR SUCCESSFUL IMPLEMENTATION OF A NON-HPVO SOLUTION



Know what you are looking for by identifying:

- Key functionalities,
- Labelling requirements
- Potential cost limitations

Find the right alternative ingredient:

- Work with your fat supplier •
- Try different products

Test the ingredient and product:

- Pilot-scale testing
- Production-scale trials
- Sensory testing and shelflife testing

Launch the product after good outcomes of all previous steps

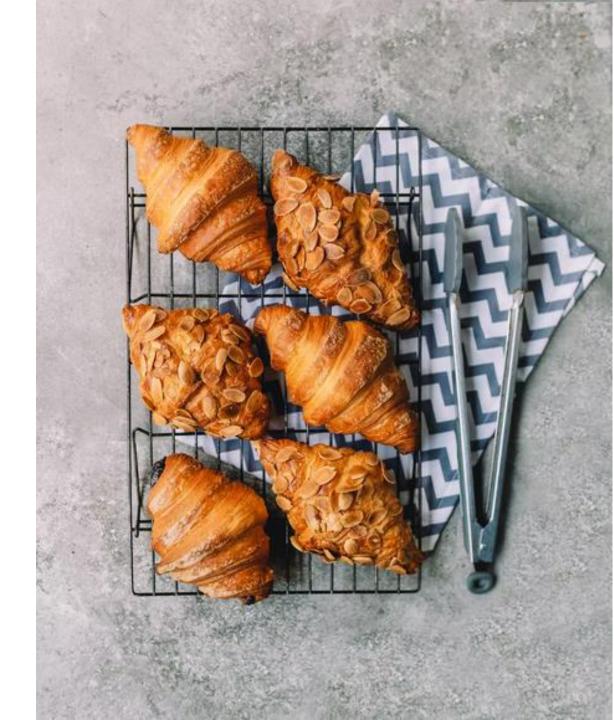
MOVING TOWARDS A FUTURE FREE FROM ITFA

This guide helps unpack the challenging process of phasing out partially hydrogenated oils while maintaining taste, texture, and structure.

Compiled by experts with a global presence in supplying a variety of fats and oil solutions that do not contain iTFA.

Ultimately, this guide aims to help SMEs in following WHO's REPLACE roadmap to replace iTFA with healthy fats and oils

For more information and to download the report, visit <u>www.ifballiance.org</u>





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