

# FLUOROTELOMERS:

ESSENTIAL TECHNOLOGY, RIGOROUSLY TESTED  
RESEARCH ANALYSIS CONFIRMS SAFETY PROFILE



FluoroCouncil  
Global Industry Council  
for FluoroTechnology

## FLUOROTELOMERS: IMPORTANT PFAS PRODUCTS

Per- and polyfluoroalkyl substances (PFAS) are a broad range of chemicals with differing characteristics, formulations and intended uses. One type of PFAS are fluorotelomers.

## FLUOROTELOMER PRODUCT FEATURES

REPEL WATER

REPEL OIL

REPEL STAINS

WETTING PROPERTIES

SPREADING PROPERTIES

## FLUOROTELOMERS ARE USED IN:



MEDICAL GARMENTS



FIRST RESPONDER GEAR



UPHOLSTERY



PAINTS AND COATINGS



CLASS B  
FIREFIGHTING FOAM



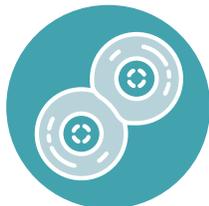
FOOD SERVICE PAPER

## SAFETY

Fluorotelomers can break down into smaller substances over time. These smaller substances are used to assess the safety of fluorotelomers. One of the primary breakdown products of today's fluorotelomers

is perfluorohexanoic acid (PFHxA), which has been extensively studied. Peer-reviewed, scientific studies show that human exposure to PFHxA is low — a key factor in determining a chemical's risk.

## RESEARCH SHOWS THAT PFHxA:



**DOES NOT**  
CAUSE CANCER



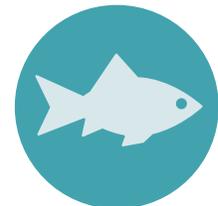
**DOES NOT**  
DISRUPT ENDOCRINE  
(HORMONE) ACTIVITY



**DOES NOT**  
NEGATIVELY EFFECT  
DEVELOPMENT OR  
REPRODUCTION



**DOES NOT**  
BUILD UP IN THE  
HUMAN BODY



**DOES NOT**  
BUILD UP IN OTHER  
LIVING ORGANISMS

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## RIGOROUS REGULATION AND TESTING

Today's fluorotelomers have undergone rigorous testing for potential effects on both human health and the environment, including regulatory reviews by the U.S. Environmental Protection Agency (EPA) and, in the case of food packaging applications, the Food and Drug Administration (FDA). In addition, regulatory bodies in Europe, Canada and Asia have determined today's fluorotelomers meet relevant standards for the protection of human health and the environment.



## WHAT IT MEANS

This extensive regulatory testing and scientific research provides important evidence on the safety of products made using fluorotelomers. Understanding the safety profile of PFHxA can help address concerns about risks to human health or the environment. The scientific research can help regulators avoid blanket treatment of the diverse range of PFAS chemicals.



## THIS RESEARCH AND TESTING CAN HELP:



**BUILD CONSUMER  
CONFIDENCE IN  
THESE PRODUCTS**



**INFORM  
PUBLIC HEALTH  
DECISIONS**



**GUIDE  
REGULATORY  
POLICIES**

## RESOURCES

Anthony L. Luz, Janet K. Anderson, Philip Goodrum, Judi Durda. *Perfluorohexanoic acid toxicity, part I: Development of a chronic human health toxicity value for use in risk assessment.* *Regulatory Toxicology and Pharmacology*, Volume 103, April 2019, Pages 41-55.

Janet K. Anderson, Anthony L. Luz, Philip Goodrum, Judi Durda. *Perfluorohexanoic acid toxicity, part II: Application of human health toxicity value for risk characterization.* *Regulatory Toxicology and Pharmacology*, Volume 103, April 2019, Pages 10-20.

H. Iwai, A.M. Hoberman, P.E. Goodrum, E. Mendelsohn, & J.K. Anderson (2019). *Addendum to Iwai and Hoberman (2014)—Reassessment of Developmental Toxicity of PFHxA in Mice.* *International Journal of Toxicology*, Volume 38(3), April 2019, Pages 183-191.