



Candidate POPs

Pentadecafluorooctanoic acid (PFOA, perfluorooctanoic acid), its salts and PFOA-related compounds

CAS No. 335-67-1

HS Code: 29159090

Full Name: Pentadecafluorooctanoic acid (PFOA)

Synonyms:

Perfluorooctanoic acid; PFOA; pentadecafluoro-1-octanoic acid; perfluorocaprylic acid; perfluoro-n-octanoic acid; pentadecafluoro-n-octanoic acid; pentadecafluorooctanoic acid; n-perfluorooctanoic acid; 1-cctanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro

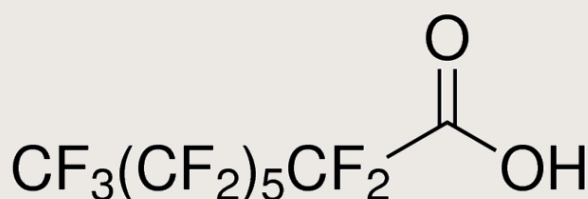
Uses:

PFOA, its salts and PFOA-related compounds are used widely in the production of fluoroelastomers and fluoropolymers, for the production of non-stick kitchen ware, food processing equipment. PFOA-related compounds, including side-chain fluorinated polymers, are used as surfactants and surface treatment agents in textiles, paper and paints, firefighting foams. PFOA has been detected in industrial waste, stain resistant carpets, carpet cleaning liquids, house dust, microwave popcorn bags, water, food, and Teflon.

Unintentional formation of PFOA is created from inadequate incineration of fluoropolymers from municipal solid waste incineration with inappropriate incineration or open burning facilities at moderate temperatures.

Hazards and Risks to human health and the environment:

PFOA is identified as a substance of very high concern with a persistent, bioaccumulative and toxic structure for the environment and living organisms. PFOA-related compounds are released into the air, water, soil and solid waste, and degrade to PFOA in the environment and in organisms. Major health issues such as kidney cancer, testicular cancer, thyroid disease, pregnancy-induced hypertension, high cholesterol have been linked to PFOA.



Reference

1. Risk management evaluation on pentadecafluorooctanoic acid (PFOA, perfluorooctanoic acid), its salts and PFOA-related compounds. Persistent Organic Pollutants Review Committee. 2017; UNEP/POPS/POPRC.13/7/Add.2
2. Toxipedia. PFOA. 2010. (<http://www.toxipedia.org/display/toxipedia/Teflon+-+Sticky+When+It+Comes+to+Health?src=search>)
3. Green Facts. 2017. Hazards and risk associated to Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances. (<https://www.greenfacts.org/en/pfoa-cookware-waterproofing/index.htm>)
4. European Chemicals Agency. ECHA. MEMBER STATE COMMITTEE SUPPORT DOCUMENT FOR IDENTIFICATION OF PENTADECAFLUOROOCCTANOIC ACID (PFOA)PFOA). 2013.