



Candidate POPs

Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds

CAS No. 355-46-4

HS Code: 38220090

Full Name: Perfluorohexane-1-sulfonic acid (PFHxS)

Trade Name: RM70 (CAS No. 423-50-7), RM75 (3871-99-6), and RM570 (CAS No. 41997-13-1) (PFHxS-related substances produced by Miteni SpA, Italy)

Synonyms: PFHxS; PFHS

Tridecafluorohexane-1-sulfonic acid, Tridecafluorohexane-1-sulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluorohexane-1-sulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluoro-1-hexanesulfonic acid

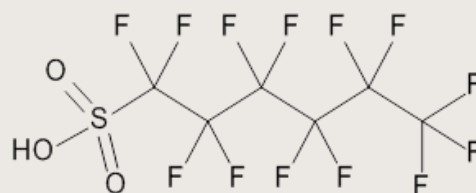
Uses:

PFHxS, its salts and related substances have unique properties with a high resistance to friction, heat, chemical agents, low surface energy and used as water, grease, oil and soil repellent. It is widely utilized in a variety of consumer goods such as carpets, leather, apparel, textiles, firefighting foam, papermaking, printing inks, sealants, non-stick cookware.

Hazards and Risks to human health and the environment:

PFHxS are very resistant to chemical, thermal and biological degradation due to their strong carbon-fluorine bonds and a resistance to degradation which makes it persist in the environment. PFHxS concentrations are found in biota and human alike and its elimination takes approximately 8 years.

Effects of PFHxS in humans are found to influence on the nervous system, brain development, endocrine system and thyroid hormone.



Reference

1. Risk profile on perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds Persistent. Organic Pollutants Review Committee. 2018; UNEP/POPS/POPRC.14/6/Add.1
2. Proposal to list perfluorohexane sulfonic acid (CAS No: 355-46-4, PFHxS), its salts and PFHxS-related compounds in Annexes A, B and/or C to the Stockholm Convention on Persistent Organic Pollutants. UNEP/POPS/POPRC.13/4. 2017
3. Open Chemistry Database. Perfluorohexanesulfonic Acid. 2005. (https://pubchem.ncbi.nlm.nih.gov/compound/Perfluorohexanesulfonic_acid#section=Top)



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