

What are "Short-Chain Chlorinated Paraffins, C10-C13 (SCCPs)" and Why They Need to be Tested?

Chlorinated paraffins (CPs) are complex mixtures of certain organic polychlorinated n-alkanes, and "SCCPs" stands for the "Short-Chain Chlorinated Paraffins, C10-C13". SCCPs may be used as flame retardants, softeners and plasticizer in various PVC, plastics, paints and rubbers, etc. Despite their usefulness, SCCPs can be hazardous to human health and environment, e.g.

- can cause cancers
- can cause skin dryness or cracking
- are persistent organic pollutants
- have toxicity to aquatic organisms and adverse effects to environment

Therefore, SCCPs are restricted for use around the world via legislations. Particularly, European Union has established regulation for such control, as described below:

Regulation	Control
Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (recast)	The manufacturing, placing on the market and use of substances or mixtures containing SCCPs in concentrations equal to or higher than 1 % by weight, or articles containing SCCPs in concentrations equal to or higher than 0,15 % by weight are prohibited.

References:

- https://uploads-ssl.webflow.com/5c4065f2d6b53e08a1b03de7/5db6ebc758aeda97bddd17e6_SCCP.pdf
- <https://eur-lex.europa.eu/legal-content/en/TXT/?uri=CELEX:32019R1021>

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