

# HORIBA Group Reduced Chemical Substances Standard

The 4.4 Edition

October 1, 2024  
HORIBA, Ltd.

## Revision History

Revised on	Revised content
6 January 2014	The 1 <sup>st</sup> Edition
1 October 2015	DiBP added for EU RoHS Directive 2015/863
1 July 2017	Substances for EU RoHS Directive 2015/863 moved to Banned Substance Standard PFOA and its salts, Polychlorinated naphthalenes (2 chlorine atoms), Hexachlorobenzene added
1 March 2018	Hexabromocyclododecane(HBCD), Perfluorooctanoic acid (PFOA) and Hexachlorobenzene are moved to Banned Substance Standard.  The number of atoms of Polychlorinated naphthalenes is changed from 2 to 1.  Bisphenol A is added.  The section name of issuing this document, written in the last page, is changed.
28 September 2021	PIP(3:1) is added.
1 November 2022	PIP(3:1) is moved to Banned Chemical Substances Standard.  Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds, Dechlorane Plus and UV-328 are added.
1 December 2023	Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds are moved to Banned Chemical Substances Standard.
1 October 2024	Polychlorinated naphthalenes (1 chlorine atoms), Dechlorane Plus and UV-328 are moved to Banned Chemical Substances Standard.  Medium-chain chlorinated paraffins (C14 - 17) and Long-chain perfluorocarboxylic acids (PFCAs), their salts and related compounds (C15 - 21) are added.

### Reduced chemical substances listed in HORIBA Group Green Procurement Guideline (By Category)

We would like to ask you to consider substitute of the substances stipulated below in regard to components and materials delivered to HORIBA Group and the products of HORIBA Group.

№	Substance	Key Legal and Regulatory or Industry Standard	Examples of Use
9	Bisphenol A	SVHC of REACH Regulation No. 1907/2006	Thermal paper, resin, adhesive agent
14	Medium-chain chlorinated paraffins (C14 - 17)	Candidate of Stockholm Convention on Persistent Organic Pollutants (POPs)	Metal processing oil, flame retardant
15	Long-chain perfluorocarboxylic acids (PFCAs), their salts and related compounds (C15 - 21) *C9 - 14 are listed in Banned Chemical Substances Standard	Candidate of Stockholm Convention on Persistent Organic Pollutants (POPs)	Surfactants, Fluoropolymer manufacturing



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