

Hydrogen Peroxide (EC # 231-765-0 / CAS # 7722-84-1)

Information for the Downstream Users (DUs) and DUs' Trade Associations on the Uses, Use Descriptors and Exposure Scenarios

AIM: This document aims at identifying the uses, which will be jointly assessed by the hydrogen peroxide REACH Consortium Members and documented in the Chemical Safety Report (CSR) as part of the joint registration dossier of hydrogen peroxide.

It allows each Downstream User to check if its use(s) has been identified and that they contact either their supplier or preferably their specific Trade Association for streamlining the communication if they have a specific input.

The selection of the Use Descriptors has been done with the current assumptions of the Consortium Members and the Technical Consultant, as well as incorporating valuable feedback from customers and trade association. The finalization of the CSR is on-going, with as deliverable a complete set of operational conditions (OC) and risk management measures (RMM) through the extended Safety Data Sheet.

The chosen exposure scenarios have to be seen as generic exposure scenarios, which represent the most common and critical conditions and shall also cover other possible uses which are in principle similar or less risky for the human health. Uses included are summarized in this document and will be well described in the scope of each scenario within the CSR.

If you see your use in the table or if you can accept that your use is covered by the chosen exposure scenarios, then please do not react and you will receive in due time the relevant information through the extended Safety Data Sheet by your supplier.

List of Identified Uses for Hydrogen Peroxide

Identified use	Short description	Sector of Use (SU) ¹	Preparation Category (PC) ¹	Process category (PROC) ¹	Article category (AC) ¹	Environmental Release category (ERC) ¹
IU 1	Manufacture of hydrogen peroxide	3, 8	0 (others: inorganic chemicals)	1, 2, 15	Not applicable	1
IU 2	Synthesis of a number of chemicals, acting mainly as an oxidising agent (e.g. epoxidised compounds, hydroxylised compounds, oxidised compounds, peracids and persalts, organic peroxides, polymers, etc.)	3, 8, 9, 11, 12	1, 2, 8, 9a, 14, 15, 19, 20, 21, 26, 29, 32, 34, 35, 37	1, 2, 3, 4, 7, 10, 11, 12, 13, 14, 15, 21	Not applicable	4, 6a, 6b, 6c, 6d
IU 3	Formulation and repackaging of a wide variety of chemical products	3, 10	1, 8, 12, 14, 15, 21, 25, 27, 29, 31, 32, 34, 35, 37, 39	1, 2, 3, 4, 5, 14	Not applicable	2
IU 4	Loading/unloading operations in industrial and non-industrial settings (indoors, outdoors)	3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 17, 21, 22	All assigned in other IUs	8a, 8b, 9	Not applicable	1, 2, 4, 6a, 6b, 6c, 8a, 8b
IU 5	Pulp bleaching for paper manufacture (bleaching agent)	3, 6	26	1, 2	Not applicable	6b, 8e
IU 6	Bleaching of fibrous and non-fibrous materials, including wood, textiles, carpets (bleaching agent)	3, 5, 21, 22	23, 24, 34	1, 2, 3, 4, 13, 19	Not applicable	4, 6b, 7, 8a, 8b
IU 7	Use in electronic industry (e.g. for etching of printed circuit boards)	3, 16	14, 33	1, 2, 3, 4, 13, 22, 23	Not applicable	4, 6b
IU 8	Use in metal finish industry (e.g. for pickling of surfaces)	3, 14, 15, 17	14, 20, 25	2, 3, 4, 7, 13	Not applicable	6b
IU 9	Production of chemically modified foodstuffs, such as	3, 4	0 (other: food)	1, 2, 3, 4, 15	Not applicable	6b

Identified use	Short description	Sector of Use (SU) ¹	Preparation Category (PC) ¹	Process category (PROC) ¹	Article category (AC) ¹	Environmental Release category (ERC) ¹
	starch (oxidising agent)		additives)		applicable	
IU 10	Industrial process water and wastewater treatment, mining industry, public drinking water, pool water and wastewater treatment, waste gas treatment (oxidising agent)	2, 3, 8, 21, 22, 23	20, 37	1, 2, 3, 4	Not applicable	4, 6b, 8a, 8b, 8d, 8e
IU 11	In situ groundwater and soil remediation (oxidising agent)	22	0 (other: environmental remediation product)	2, 3, 4	Not applicable	8e
IU 12	Use in agriculture (oxygen source for plants, cleaning agent)	1, 22	12, 20, 35, 37	2, 4, 5, 10, 11, 13	Not applicable	8a, 8b, 8e, 9a, 9b
IU 13	Use in cleaning agents	4, 20, 21, 22	21, 35	4, 10, 11, 13, 19	Not applicable	8a, 8b, 8d, 8e
IU 14	Use as laboratory agent (oxidising agent)	3, 8, 9, 22	21	15	Not applicable	1, 4, 6a, 6b
IU 15 ²	Hair dyeing and bleaching	21, 22	39	19	Not applicable	8a, 8b
IU 16 ²	Use in dental care products and tooth bleaching	21, 22	39	19	Not applicable	8a, 8b
IU 17 ²	Use as biocidal product or use in medicinal, aseptic or other cosmetic products	3, 21, 22	8	1, 2, 3, 4, 5, 7, 10, 11, 13, 19	Not applicable	8b, 8e, 9a, 9b

¹ For the meaning of the different categories, please check the according document, Chapter R.12 in the ECHA Technical Guidance

² The assessment of human health risks emerging from the use of cosmetics is covered by the EU Cosmetics Directive (76/768/EEC) and is not the subject of the REACH regulation. Predicted environmental concentrations are calculated for cosmetic uses and the potential risks to the environmental health are assessed under the REACH regulation. The assessment of human and environmental exposure resulting from the use of biocidal products is covered by the EU Biocidal Products Directive (98/8/EC).