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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 (which will be updated soon with information on Risk Management Measures (RMM) and Operational Conditions (OC)) 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 (List in **Appendix1**, related with the Use) 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, and the finalization of the CSR is on-going, with as deliverable a complete set of OC and 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.

ES 1: Manufacture and industrial use in chemical syntheses or processes and formulation of hydrogen peroxide solutions (SU 3/4/8/9/10/14/15/16/17; PROC 1/2/3/4/5/7/11/13; ERC 1/2/6a/6b)

The scenario describes the all processes and activities related to industrial manufacture of hydrogen peroxide in automated, closed, continuous processes and industrial use of hydrogen peroxide in similar processes and also in closed batch processes. Such processes may be found in formulation, chemical syntheses (such as epoxidation) and chemical processes (such as etching in the electronic industry or metal surface finishing in the metal processing industry).

ES 2: Loading and unloading operations, distribution (SU 3; PROC 3/4/8a/8b/9; ERC 1/2/4/6a/6b/6c)

The scenario describes processes and activities related to loading and unloading operations performed in the identified uses. This includes filling of containers at production sites, delivery of raw solutions to other sites, transfer from transport containers into storage tanks and transfer from storage containers into reactors or dilution tanks. The design and size of the loading devices, storage containers, transport containers and reaction vessels may differ considerably. The solutions may have varying concentrations of hydrogen peroxide.

ES 3: Bleaching with hydrogen peroxide solutions (SU 3/5/6/22; PROC 1/2/3/4/13; ERC 4/6b/8a)

The scenario describes processes and activities related to automated, semi-automated and manual bleaching processes performed with aqueous hydrogen peroxide solutions in industrial and professional settings. This includes the bleaching of pulps used in the manufacture of paper, fibrous and non-fibrous materials and textiles (including carpets).

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ES 4: Environmental and agricultural use of hydrogen peroxide solutions (SU 1/3/22; PROC 2/3/4; PC 8/12/27/37; ERC 8b/8e)

The scenario describes processes an activities related to industrial use of hydrogen peroxide as an oxidising agent for the removal of pollutants from industrial wastewater, exhaust (e.g. by wet scrubbing) or solid waste. In addition, the scenario covers the professional use of hydrogen peroxide solutions in the remediation of wasted soils and groundwater. Finally, it covers the use in agriculture, e.g. for cleaning pipes in greenhouses and as a source of oxygen in the irrigation water or soil to improve the oxygen supply of the roots.

ES 5: Use of hydrogen peroxide solutions for hair bleaching and dyeing (SU 22; PC 39; PROC 19; ERC 8b)

The scenario describes activities related to the professional use in hairdresser's shops of preparations containing hydrogen peroxide for bleaching and dyeing of hair.

ES 6: Use of hydrogen peroxide solutions for textile bleaching (SU 21; PC 35; ERC 8b)

The scenario describes activities related to the public use of hydrogen peroxide solutions for the bleaching of textiles in washing machines.

ES 7: Use of hydrogen peroxide solutions in cleaning agents (SU 21/22; PROC 10/11/19; PC 35; ERC 7/8b)

The scenario describes processes and activities related to the public and professional use of hydrogen peroxide solutions in all-purpose cleaning products.

Other Uses

For cosmetics which contain hydrogen peroxide, the assessment of human health risks will not be performed in this CSR because the assessment is covered by the EU Cosmetics Directive. The risk assessment of biocidal products, which could contain hydrogen peroxide as a precursor, is covered by EU Directive 98/8/EC and therefore these products will also not be discussed in the CSR.

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

For any further question, you can contact Alain RENARD, hydrogen peroxide REACH Consortium Secretary: are@reachcentrum.eu.

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Appendix 1

Downstream Users Trade Associations Lists

- **ES 1**: CEFIC: European Chemical Industry Council, www.cefic.eu
- **ES 1** / **2**: F.E.C.C.: European Association of Chemical Distributors, http://www.fecc.org/fecc/
- **ES 3**: CEPI: Confederation of European paper Industries, http://www.cepi.org/Content/Default.asp? or ClO2 REACH Consortium / A.I.S.E.: International Association for Soaps, Detergents and Maintenance Products http://www.aise.eu/
- **ES 4**: European Federation of Waste Management and Environmental Services http://www.fead.be/
- **ES 5**: COLIPA: European Cosmetics Association http://www.colipa.eu/
- **ES 6**: A.I.S.E.: International Association for Soaps, Detergents and Maintenance Products http://www.aise.eu/
- **ES 7**: A.I.S.E.: International Association for Soaps, Detergents and Maintenance Products http://www.aise.eu/