Progress beyond

H_2O_2 Biocidal Product

INTEROX® SG 50

H_2O_2 Sterile Grade

DESCRIPTION

INTEROX® SG-50 is a specially designed grade of Hydrogen Peroxide registered as Biocidal Product under the Reg. EU 528/2012, for professional uses in PT2 applications in the Pharmaceutical, Medical and Industrial sector for the disinfection of the surfaces of Rooms, Isolators and confined spaces:

BPR Authorisation n° EU-0027468-0004 1-3

Authorised uses PT2:
– Surface disinfection of closed spaces by aerosolised hydrogen peroxide

– Surface disinfection of enclosures in filling isolators by aerosolised or vaporised hydrogen peroxide - VHP

The applications of this product are regulated under BPR in Europe (EEA+CH) or by national legislation outside EEA+CH. The buyer and the eventual user, in his sole and entire liability, shall respect those Legislations, orders of any relevant authority, and all existing patents and intellectual property rights; and shall comply with the laws and the regulations applicable to our products and/or to his activity. The buyer and the eventual user must independently determine the suitability of this product for any particular purpose and its manner of use.
In EEA+CH the product cannot be used for other applications than those authorised under the BPR. In the other Countries please assess compliance with the local legislation, or Authorisation requirement that may apply.
For other applications of hydrogen peroxide, please contact your local Solvay office or visit our website www.solvay.com

SPECIFICATION

Content	Unit	Value	Methods of analysis
Assay	% w/w	49.0 – 49.9	Densitometer calibrated by $KMnO_4$
Expiring date	Twelve (12) months after the end of the month of formulation date		
Stability (1h, 96°C)	g/kg * h	≤ 3	Gas production method
Non volatile matter (at 105°C)	mg/kg	< 2	Gravimetry
Calcium	mg/kg	≤ 0.05	ICP-OES
Iron	mg/kg	≤ 0.01	ICP-OES
Aluminium	mg/kg	≤ 0.05	ICP-OES
Sodium	mg/kg	≤ 0.5	ICP-OES
Chloride	mg/kg	≤ 0.1	IC
Phosphate (as PO_4^{3-})	mg/kg	≤ 1	IC
Sulfate	mg/kg	≤ 0.1	IC

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TYPICAL VALUES

Content	Unit	Value	Typical Analytical Methods
Cadmium	mg/kg	≤ 0.002	ICP-MS
Chromium	mg/kg	≤ 0.002	ICP-MS
Cobalt	mg/kg	≤ 0.002	ICP-MS
Copper	mg/kg	≤ 0.002	ICP-MS
Manganese	mg/kg	≤ 0.002	ICP-MS
Magnesium	mg/kg	≤ 0.01	ICP-MS
Nickel	mg/kg	≤ 0.002	ICP-MS
Tin	mg/kg	≤ 0.002	ICP-MS
Zinc	mg/kg	≤ 0.002	ICP-OES
Silicon	mg/kg	≤ 0.01	ICP-MS
Nitrate	mg/kg	≤ 3	IC

PHYSICOCHEMICAL PROPERTIES

INTEROX® SG-50 is an aqueous solution of hydrogen peroxide. It's a clear, colourless liquid, with a pungent odour, miscible with water in all proportions.

Characteristic	Unit	Value
Volume of 1 ton of product (25°C)	m^3	0.8383 +/- 0.0014
Boiling point at 101.3 kPa	°C	113.9
Freezing point	°C	- 52
Viscosity at 20 °C	mPa.s	1.1 +/- 0.01

IDENTIFICATION

Hydrogen peroxide	H_2O_2
Molecular weight	34
CAS number	7722-84-1
CE (EINECS) number	231-765-0

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PACKAGING & TRANSPORT

Packaging:

INTEROX® SG-50 is delivered in 1, 2.5, 5 or 24 kg bottles and different combinations.

Please consult us for any further information relating to the product or options for supply.

Transport:

UN Code	2014
ADR/RID Class	5.1
Packing group	II
Hazard label	5.1 + 8
Danger code	58
Placard	58/ 2014

STORAGE & HANDLING

Packed hydrogen peroxide should be stored in its original vented container, upright, in a ventilated area at ambient temperature where the bottles are protected from damage, exposure to sunlight Keep away from combustible materials and source of ignition and heat. Use only approved materials for pumps, piping and hoses.

Hydrogen peroxide has very specific requirements regarding handling and storage precautions. Contact your supplier to obtain more detailed information.

INTEROX® SG 50 in its unopened containers hold an approved Shelf-life of 12 months under standard condition of storage at 25°C.

SAFETY

Personnel working with hydrogen peroxide should be familiar with safety and handling procedures and should always wear goggles or face shield and rubber gloves. When working with large quantities, chemical suit and rubber boots shall be worn as well.

Hydrogen peroxide is a corrosive solution that can cause burns.
In case of contact with skin or eyes, always rinse with plenty of water and consult a doctor.

Detailed safety information is available in the SDS (Safety Data Sheet).

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