

Oxyper® SHC Sodium Percarbonate

Description

Oxyper® SHC is a high coated, stabilised grade of sodium percarbonate (Sodium carbonate peroxyhydrate) specially designed for use in bleach additive products, detergent powders and tablets, automatic machine dishwash powders and tablets. Sodium percarbonate combines the properties of hydrogen peroxide with the properties of sodium carbonate in an easy to use free flowing white granular powder with excellent water solubility and high rate of dissolution.

The bleaching action of Oxyper® SHC maintains fabric whiteness and colour brightness while effectively removing wine, fruit, coffee, tea and other stains without damaging fibres. The alkalinity, the buffering capacity and water softening properties of sodium carbonate provide additional cleaning benefits, such as helping the removal of natural fatty soils.

Some applications of this product may be regulated or restricted by national or international standards (e.g. for food or feed additives, water treatment, the cosmetic or the pharmaceutical industry, etc). The buyer and the eventual user, in his sole and entire liability, shall respect those standards, 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.

For other applications of Sodium Percarbonate, please contact your local Solvay office or visit our website www.persalts.com.

Plants: Rosignano (Italy); Bad Hönningen (Germany)

Standard Specification

Product Name: Oxyper® SHC

Product characteristics:

Content	Unit	Value	Method of analysis
Available Oxygen (AvOx)	%	≥13	1.1.2 Avox by KMnO ₄ -titration
Bulk density	g/l	900-1200	1.1.22 Bulk density
Particle size >1600 µm or >1400 µm < 150 µm	%	≤3 ≤10 ≤2	1.1.39 mps and span calculation
Mean particle size (MPS)	µm	650- 950	1.1.39 mps and span calculation
Rate of dissolution (2g/l; 15°C water)	%/min	≥90% (after 2')	1.1.23 Rate of dissolution at 15°C

Please contact us for further information on product characteristics (methods of analysis, etc).

Identification

Product Name	Oxyper® SHC
Chemical Name	Sodium Carbonate Peroxihydrate
Synonyms	PCS, SPC, Sodium Percarbonate
Molecular weight	314
CAS Number	15630-89-4
EC Number (EINECS)	239-707-6

Physical and chemical characteristics

Characteristic	Unit	Value
Appearance	-	White, crystalline granules
Alkalinity	pH	10,4 -10,6 (1% solution)
Solubility in water	g/l	At 20°C 150 g/l At 30°C 175 g/l

Oxyper® SHC Sodium Percarbonate

□ Packaging characteristics

Bulk, BigBags, PE-lined Paper Sacks and PE-Sacks

□ Storage and Safety

Oxyper® SHC Sodium Percarbonate is an oxidising agent which can be decomposed by water, direct sources of heat, catalysts etc. Decomposition is accompanied by the liberation of oxygen and steam which can support combustion and can cause pressure bursts in confined spaces. Decomposition in the presence of incompatible materials like organics can be rapid and highly exothermic.

- **Avoid contamination by moisture, dirt or other chemicals**
- **Keep away from organic material, acids, alkalis, reducing agents and metallic contamination**
- **Protect from direct sunlight and keep away from heat sources**
- **Store packed material in a dry area**

Please contact Solvay for further information on packaging characteristics (description of road tankers, etc); product handling and storage.

Wear gloves, dust mask and goggles when handling the product. Practice good industrial hygiene. Only use equipment made of suitable materials, e.g. plastic, glass, stainless steel (e.g. 316L) and consult our material safety data sheet.

Ratings


NFPA (National fire protection association)

Health = 2 Flammability = 0 Instability = 1 Special = OX

HMIS (Hazardous Material Information System)

Health = 2 Fire = 0 Reactivity = 1 PPE = Supplied by User; dependent on local conditions

Labelling according to Regulation (EC) 1272/2008

Hazardous Components		Sodium carbonate peroxyhydrate
Signal Word		DANGER
Hazard symbols		
Hazard statements	H272 H302 H318	May intensify fire; oxidiser Harmful if swallowed Causes serious eye damage
Precautionary statements	Refer to Safety Data Sheet according to Regulation EC No. 1907/2006	

□ Transport information

Mode	ADR	IMDG	IATA
UN number / Class	3378 / 5.1		
Proper shipping name	Sodium carbonate peroxyhydrate		
Packing group	III		
Transport labelling	5.1 Oxidising substance		
Marking	3378	-	-

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