

FB[®] 400 Sodium Percarbonate

Technical Data Sheet

Introduction

FB[®] 400 Sodium Percarbonate is an addition compound of sodium carbonate and hydrogen peroxide. This granular product provides a stable source of alkaline hydrogen peroxide which is environmentally friendly and easy to use. FB[®] 400 Sodium Percarbonate has an active available oxygen content which is equivalent to 27.5% H₂O₂.

Applications

FB[®] 400 Sodium Percarbonate offers many of the same functional benefits as liquid hydrogen peroxide. As an oxidant, FB[®] 400 Sodium Percarbonate provides powerful cleaning, bleaching, stain removal and deodorizing capabilities. These attributes make FB[®] 400 Sodium Percarbonate a product that is environmentally benign because its products of decomposition are water, oxygen and soda ash.

FB[®] 400 Sodium Percarbonate has a wide range of applications including use in heavy duty laundry detergents, all fabric bleaches, wood deck bleaches, textile bleaches and carpet cleaners. It is used in a number of general cleaning products in the Institutional and Industrial marketplace. The product also has use in personal care formulations, denture cleaners, and certain food bleaching applications.

Technical Information

Chemical Name:	Sodium Carbonate Peroxyhydrate
Synonyms:	Sodium Percarbonate, Sodium Carbonate Peroxide, PCS
Formula:	2Na ₂ CO ₃ • 3H ₂ O ₂
CAS No.	15630-89-4
Solubility (20°C, g/L)	120
Alkalinity (%Na ₂ CO ₃)	67

PRODUCT PROPERTIES TYPICAL RANGE STANDARD SPECIFICATIONS

Appearance:	Free flowing white granular powder
Available Oxygen (%):	13.0 Minimum
Bulk Density (g/mL):	1.00-1.17
Particle Size Distribution (% Retained on)	
850μ (US Sieve #30):	15 Maximum
212μ (US Sieve #70):	90 Minimum
Mean Particle Size (μ):	350 - 650
Attrition (Solvay Method No. PC-371/01, %) <5	
Fe (mg/kg):	10 Maximum
pH; 1% Solution:	10.5-10.6



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Customer Service

The safety of our customers is our highest concern. To discuss safety training for your employees; to confer about product applications technology or design of storage facilities; or to obtain assistance in determining the potential hazards associated with using this material in a given process or formulation, contact your Solvay Chemicals, Inc. Regional Manager at 1-800-SOLVAY-C or 800/765-8292.

Storage and Handling

- Store in a dry location away from heat and out of direct sunlight in containers fitted with a safety valve or vent. Storage temperature:<104°F (40°C).
- Store in an area away from acids, bases, metals, metal salts, reducing agents, organic materials or flammable substances.
- Never return unused product to the storage container.
- Rotate inventories-first in, first out.
- Do not stack 50 lb bags more than 8 bags high. Do not stack 2000 lb bags. Do not stack pallets. Maintain two feet spacing between pallets of bags.

Safety

- Ensure all personnel who may come in contact with this material are aware of the potential hazards, first aid measures and the proper storage and use techniques outlined in the Material Safety Data Sheet (MSDS)
- Storage and use areas should be equipped with a safety shower and eyewash station.
- Use appropriate eye and skin protection.
- Dispose of according to applicable federal, state and local regulations.
- Water is the preferred extinguishing medium in case of fire involving this product.

First Aid

- **Eye contact:** Flush with running water for 15 minutes, while keeping eyelids wide open. Consult with an ophthalmologist in all cases.
- **Skin contact:** Wash the affected skin with soap and water. Call physician in case of persistent pain or redness.
- **Inhalation:** Remove the victim from the dusty environment. Call physician in case of respiratory symptoms.
- **Ingestion:** Consult with a physician in all cases. DO NOT induce vomiting. If victim is conscious, rinse mouth and give large quantities of fresh water. NEVER give anything by mouth to an unconscious person.

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Regulatory Information

- DOT Proper Shipping Name: Oxidizing solid, n.o.s. (sodium carbonate peroxyhydrate)
- DOT Hazard Class: 5.1 (oxidizer)
- UN Number: 3378
- RCRA Waste Number: D001, ignitable
- SARA Section 311/312 hazard category: Fire hazard and Immediate health hazard

Danger: OXIDIZER - SODIUM CARBONATE PEROXYHYDRATE CAN CAUSE SEVERE EYE DAMAGE AND SKIN IRRITATION. Consult the MSDS for the appropriate Personal Protective Equipment to wear when handling sodium carbonate peroxyhydrate. In case of repeated contact with the skin, product may cause dermatitis. Prevent contact with eyes and avoid skin contact. Wash hands and skin thoroughly after handling. Damp product in contact with combustible materials may cause fires.

Before using, read Material Safety Data Sheet (MSDS) for this chemical.

**Solvay Chemicals, Inc.
24 hour Emergency Phone Number - 800-424-9300 (CHEMTREC[®])**

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