FMC Corporation
Active Oxidants Division
1735 Market Street
Philadelphia, Pennsylvania 19103
Phone: (215) 299-6000

Calcium Peroxide (Food Grade)

CAS NO 1305-79-9

Introduction

Calcium peroxide is widely used in the baking industry as a dough conditioning agent. It has application in oral care formulations and as a seed coating for grains and vegetables. Calcium peroxide is also used as an oxygen source in environmental and industrial applications.

Formula CaO_2 MW (100% Product) 72.8

Description Yellow/white powder for general food and industrial applications

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Specifications

Calcium Peroxide, %	75.0 min
Active Oxygen, %	16.6 min
Moisture, %	2.0 max
Fluoride, %	0.005 max
Heavy Metals as Lead, %	0.004 max
Lead, ppm	10.0 max
Arsenic, ppm	3.0 max
% through 200 mesh	99 min
% through 325 Mesh	95 min

Typical Properties

Solubility	Practically insoluble in water Soluble in acid
pH of a 1% slurry at 25 degrees C., approximate	12.5
Loose Bulk Density, approximate lb/cu ft	45
Appearance	Yellow/White Powder
Odor	None

Standard Containers

Fiber Drums, polyethylene lined	100 lbs (45.25 kg)
IBC-Polypropylene sack, polyethylene lined	2000 lbs (905 kg)

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Shipping

Calcium peroxide 75% is shipped in the above standard containers. It is classified by DOT as "Oxidizer - 5.1" and containers carry the yellow oxidizer label.

Safety/Handling/Storage

Calcium peroxide is among the safest to handle of peroxygen compounds. It represents no significant hazards with regards to skin contact, absorption, inhalation, or ingestion. Airborne dust is irritating to eyes, nose, throat, and lungs. Calcium peroxide should be handled in well ventilated, dust controlled areas. When handling large quantities, the use of dust mask, goggles, and gloves is recommended.

Calcium peroxide is an oxidizer, thus contact with combustible materials (paper, cotton, organics, wood, leather, reducing agents, and other oxidizers) should be avoided.

Calcium peroxide is not flammable but will contribute oxygen to feed a fire. Contamination, heat, and humid conditions will enhance and accelerate decomposition. Fires involving calcium peroxide are best controlled by using large quantities of water. However, unlike most oxidizers, decomposition is endothermic.

Calcium peroxide should be stored in a clean, dry place. Do not expose to heat sources or high humidity. Store away from combustible materials. Keep containers closed when not in use. Handle spills by dilution with water.

(Refer to the MSDS for more detailed information)

Customer Service

To place orders, please call the marketing office below.

FMC Corporation
Active Oxidants Division, Marketing
1735 Market Street
Philadelphia, PA 19103
Tel (215) 299-6000

For technical assistance, request samples or obtain general information, please call per below.

Applications and Chemistry of Peroxygens
FMC Research and Development Center
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