

# Calcium Stearate FN

## Description

Calcium stearate is the calcium salt of distilled, hydrogenated fatty acids. Calcium Stearates differ mainly in degree of over basing, apparent density, and particle fineness of powders. An all vegetable version manufactured only from vegetable sourced raw materials is available. Calcium Stearate FN is a fused stearate.

## Applications

Calcium stearate is used as a catalyst neutralizer and/or lubricant in polypropylenes. A wide variety of general applications for the fused Calcium Stearates are found in polypropylene and other polyolefins. Often the choice of product is based on particle size characteristics. Calcium Stearate FN is used as lubricants, anti-static agents and acid scavengers in PVC formulations.

Calcium Stearate FN is certified NSF/ANSI Standard 14 Generic Ingredients and has passed all applicable sections of NSF/ANSI Standard 61 health effects requirements for use in potable water applications.

## Available Forms

Powder

## Packaging

Bag – 50lbs (22.68kgs)

Bulk Sack –1300lbs (590kgs)

## Solubility

Calcium Stearates are:

- Insoluble or very sparingly soluble in water, methanol, ethanol, esters or ketones.
- Soluble in hot turpentine, benzene, toluene, xylenes, carbon tetrachloride, vegetable oils, oleic acid, waxes and pyridine.

## Product Specifications

Properties	Specifications
Total Ash	9.30 – 11.50
Fineness, % Thru 325 Mesh	85.00 – 100.00
Free Fatty Acids	0.00 – 1.00
Water %	0.00 – 3.50
Appearance, White Powder	Pass (Visual)

## FDA Status

Calcium Stearate is approved for use by the Food and Drug Administration (FDA) in several regulated applications. These use clearances are listed in the following sections of Title 21 of the Code of Federal Regulations:

Applications	21CFR	Limits
In adhesives	175.105	N
Resinous and polymeric coatings	175.300(b)(3)(xxii)	Driers
Resinous and polymeric coatings for polyolefin films	175.320	None
Xylene-formaldehyde resins condensed with 4,4'-isopropylidenephthal-epichlorohydrin epoxy resins	175.380	
Zinc-silicone dioxide matrix coatings	175.390	
As a component of paper and paperboard brought in contact with aqueous and fatty foods	176.170	None
As a component of paper and paperboard brought in contact with dry foods	176.180	None
Cellophane	177.1200	None
In closures with sealing gaskets for food containers	176.1210	
Ethylene-vinyl acetate copolymers	176.1350	
Hydroxyethyl cellulose film, water soluble	177.1400	
Phenolic resins in molded articles	177.2410	For Use as Lubricant

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**FDA Status (continued)**

<b>Applications</b>	<b>21CFR</b>	<b>Limits</b>
Rubber articles intended for repeated use	177.2600	Plasticizer: Not to exceed 30% by weight of rubber product unless otherwise specified
Antioxidants and/or stabilizers for polymers	178.2010	None
Stabilizer (Prior Sanction)	181.29	None

This FDA status information is intended to provide an overview only and is not intended to be an alternative to reading the FDA regulations. The above CFR sections should always be consulted for the complete context before any conclusion is made as to the allowed regulated use.

**Safety and Handling**

Calcium Stearate is not regulated by the Department of Transportation (DOT). It is not corrosive and not flammable by DOT definitions. However, this product is available in powder form and – like all powders – should be handled in such manner as to minimize dusting. Otherwise, an explosive hazard could develop. Avoid all sources of ignition when handling this product. Avoid dispersion of dust to reduce fire and explosion potential.

Although metallic stearates are chemically stable, they should be kept away from strong oxidizing agents. They should not remain at temperatures greater than 75 – 85 °C (167 – 185 °F) for extended periods of time.

The Safety and Handling information listed above is intended to provide an overview only and is not intended to be an alternative to reading the MSDS for the product listed.

*Please consult the Material Safety Data Sheet for additional information on safety, handling and storage before using this product. Contact PMC Biogenix, Inc. for copies of the MSDS for this product.*



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