Sodium Stearate T-1

Description

Sodium Stearate is a sodium salt of distilled, hydrogenated fatty acids. These products are designed for use in cosmetics and personal care applications as well as other applications.

Applications

Sodium Stearate T-1 grade is used in high-impact polystyrene and in propylene as a lubricant. It exhibits a high softening point and excellent resistance to discoloration when used with polyamides and polycarbonate as a lubricant. This grade is also used as an emulsifier and dispersant in latex points, as a vulcanization promoter in certain rubber formulations and for general use as a soap in polymers for neutralization and surfactant effects.

Available Forms

Powder

Packaging

Bag – 50lbs (22.68kgs)

Solubility

Sodium Stearates are:

- Insoluble in benzene, toluene, xylenes
- Sparingly soluble in water, methanol, ethanol, esters on ketones and vegetable oils.
- Soluble in hot mineral oils and waxes with gel formation upon cooling

Product Specifications

Properties	Specifications
Fineness thru 100 Mesh	70.0 – 100.0
Fineness thru 20 Mesh	100.0 (min.)
Free Fatty Acids (As Stearic)	0.20 – 1.50
FSC Test	Clear
Unreacted Caustic	Pass
Water	0.00 – 3.00
Appearance, White Powder	Pass (Visual)

FDA Status

Aluminum Stearate 22 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	Not to exceed the amount necessary to achieve results
Acrylate ester copolymer coatings	175.210	None
Resinous and polymeric coatings	175.300(b)(3)(xxii)	None
Resinous and polymeric coatings for polyolefin films	175.320	None
Xylene-formaldehyde resins condensed with 4,4'-ispropylidenephenol-epichlorohydrin epoxy resins	175.380	
Zinc-silicone dioxide matrix coatings	175.390	

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FDA Status (continued)

Applications	21CFR	Limits
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	
Cellophane	177.1200	None
Hydroxyethyl cellulose film, water soluble	177.1400	
Filters, resin bound Substances employed in fiber finishing	177.2260	
Surface lubricants used in the manufacture of metallic articles	178.3910(b)(2)	None
Packaging materials for use during the Irradiation of prepackaged foods	179.45	Not to exceed 1% by weight of polymer
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

Sodium Stearate is not regulated by the Department of Transportation (DOT). They are not corrosive and not flammable by DOT definitions. However, these products are 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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