Zinc Stearate NB-60 SW

CAS Registry Number: 557-05-1

Description

Zinc Stearate NB-60 SW is the zinc salt of distilled, hydrogenated fatty acids.

Applications

Zinc Stearate NB-60 SW has been developed for use in lacquer sanding sealers as a sanding aid which also minimizes possibilities of ”bloom” or “frost” development in subsequently applied top coats of synthetic varnishes containing acid catalysts. Conventional zinc stearates can react with acid catalysis in synthetic varnishes to produce a greasy “bloom” in the finish. Zinc Stearate NB-60 SW has exceptional resistance to reaction with acid catalysis.

Product Specifications

Properties	Specifications
Total Ash	17.00 – 18.50
Water Soluable Salts	0.00 -0.50
Water %	0.00 – 1.00
Fineness, % Thru 325 Mesh	99.80 – 100.00
Free Fatty Acids (AS Stearic)	0.00 – 2.00

Solubility

Zinc Stearates are:

- Insoluble in water, methanol, ethanol, esters or ketones
- Soluble (hot) in turpentine, benzene, toluene, xylenes, carbon tetrachloride, vegetable oils, mineral oils, and waxes
- Complexation with appropriate amines improves low temperature solubility.

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Customer Service
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FDA Status

Zinc Stearate NB-60 SW is sanctioned by the U.S. Food and Drug Administration (FDA) under Title 21 of the Code of Federal Regulations (21 CFR). These use clearances are indicated in the following sections:

Application	21 CFR	Limitations
In adhesives	175.105	None
Resinous and polymeric coatings	175.300(b)(3)(xxii)	None
Xylene-formaldehyde resins condensed with 4,4'-ispropylidenephenol-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
In closures with sealing gaskets for food containers	177.1210	
Melamine-formaldehyde resins in molded articles	177.1460	For use as lubricant
Urea-formaldehyde resins in molded articles	177.1900	For use as lubricant
Phenolic resins in molded articles	177.2410	For use as lubricant
Rubber articles intended for repeated use Activators	177.2600 (c)(4)(ii)(d)	Total not to exceed 5 percent by weight of rubber product
Antioxidants and/or stabilizers for polymers	178.2010	None
Surface lubricants used in the manufacture of metallic articles	178.3910	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.

EU Status

Zinc Stearate NB-60 SW may be used in food contact applications in the EU according to the provisions laid down in EU-Directive/2002/72/EC Annex II relating to plastic materials and articles intended to come into contact with foodstuff. The list does not include the salts (including double salts and acid salts) of aluminum, ammonium, calcium, iron, magnesium, potassium, sodium and zinc of the authorized acids, phenols or alcohols which are also authorized. However, names containing '… acid(s), salts' appear in the lists if the corresponding free acid(s) is (are) not mentioned. In each case the meaning of the term 'salts' is 'salts of aluminum, ammonium, calcium, iron, magnesium, potassium, sodium and zinc'.

Safety and Handling

Zinc 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.