Kemamide® S

Stearamide

CAS Registry Number: 124-26-5

Description

Kemamide® S fatty amide is saturated fatty primary monoamide, derived from stearic acid. It shows exceptional stability to light and air and is resistant to dilute acids and bases. This product is available in powder and bead form.

Applications

Most uses of Kemamide ® S fatty amide are based on its antiblock properties. It serves as a lubricant and release agent in plastics, waxes and rubber; as an intermediate to mar-resistance agents, softeners, and water repellents for textiles; as an emulsion stabilizer for cosmetics; as a corrosion inhibitor for metal surfaces and aqueous systems; and as a blending agent for waxes for resins. This product improves the adherence to resins to glass fibers; is sometimes used to improve the peel strength of printing inks.

Product Specifications

Properties	Specifications
Acid Number	0.00 – 1.00
Amide %	98.0 – 100.0
Closed Tube Melt Point °C	98.0 108.0
Gardner Color (1963)	0.0 – 2.0
Iodine Value	0.0 – 3.0
Water %	0.00 – 0.25

Solubility

Kemamide® S fatty amide is relatively insoluble at ambient temperatures in water and all common organic solvents. Some dissolution takes place in oxygenated organic solvents at high temperature and under high-shear conditions, but upon cooling, crystallization occurs.

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Memphis, TN 38108

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Typical Properties

Properties	Typical Values
Flash Point (COC), °C (°F)	246
Density	
at 130 °C	0.809
at 160 °C	0.849
Viscosity at 130 °C, cP	5.8
Heat of Fusion, kcal/mol	12.2
Fire Point, COC, °C (°F)	268

FDA Status

Kemamide® S fatty amide is sanctioned by the U.S. Food and Drug Administration (FDA) under Title 21 of the Code of Federal Regulations (21 CFR) as indicated in the following sections:

In adhesives	175.105
In can end cements (resinous and polymeric coatings)	175.300
In closures with sealing gaskets for food containers	177.1210
For use as a release agent in petroleum wax polymeric resins that contact food	178.3860
In ethylene-vinyl acetate copolymers	177.1350
For use in surface lubricants used in manufacturing metallic articles	178.3910
In packaging materials for use in the radiation preservation of prepackaged food	179.45
For use as a release agent in manufacturing food package materials	181.28

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.

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Safety and Handling

The Kemamide® fatty amide compounds are not primary skin irritants by the Draize Test (Federal Hazardous Substances Act). Avoid contact with skin and eyes.

Wear normal safety equipment such as chemical safety goggles and rubber gloves when handling Kemamide® fatty compounds.

In case of accidental eye contact, flush with large amounts of water and call a physician. If swallowed, call a physician.

In normal metabolic processes, the human body absorbs amides, and uses amidases in the liver to break them down into free fatty acids and nitrogen compounds. The body then metabolizes them in a process similar to that of the breakdown of fats and proteins.

The Kemamide® fatty amide compounds are not regulated by the Department of Transportation (DOT). They are not corrosive and not flammable by DOT definitions. However, if these products are supplied in powder form, in-process dusting should be minimized, otherwise anexplosive hazard could develop. Avoid all sources of ignition when handling this product.

The Kemamide® fatty amide compounds, although chemically stable, should be kept away from strong oxidizing agents. They should not remain at temperatures greater than 75 - 85 °C (167-185 °F). Holding the Kemamide® products in a molten state or exposure to high temperatures should be minimized to retain product quality.

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.

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