

Kemamide® OR

Oleamide

CAS Registry Number: 301-02-0

Description

Kemamide® O is an unsaturated aliphatic amide derived from oleic acid. It is a technical grade oleamide for polymeric applications. Kemamide® O is available in powder or bead form.

Applications

Most uses of Kemamide® O are based on its lubrication. It is an effective fast-bloom slip agent in polyethylene and polyolefin films; as a release and antistatic agent in molding and forming plastic; as a dyestuff dispersant for printing inks and surface coatings; as a cosmetic additive; and as a blending agent for paraffin waxes and polyamide resins, and as a component of lubricant and grease formulations.

Product Specifications

Properties	Specifications
Acid Number	0.00 – 1.00
Amide %	98.0 – 100.0
Closed Tube Melt Point °C	70.0 – 78.0
Gardner Color (1963)	0.0 – 2.0
Iodine Value	72.0 – 95.0
Water %	0.00 – 0.20

Solubility

Kemamide® OR fatty amide is relatively insoluble in water. In oxygenated organic solvents at ambient temperatures, it is soluble to levels of up to 10% by weight.

Typical Properties

Properties	Typical Values
Molecular Weight	275
Flash Point (COC), °C (°F)	245 (473)
Density	
at 130 °C	0.823
at 160 °C	0.859
Viscosity at 130 °C, cP	5.5
Heat of Fusion, kcal/mol	6.3

PMC Biogenix, Inc.
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FDA Status

Kemamide® OR 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
For use in xylene-formaldehyde resins condensed with 4,4'-isopropylidenediphenol-epichlorohydrin epoxy resins	175.380
In zinc-silicon dioxide matrix coatings	175.390
As a component of paper and paperboard in contact with aqueous and fatty foods	176.170
In closures with sealing gaskets for food containers	177.1210
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 an explosive 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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