



SYLVAGEL™ MP Specialty Polymeric Gellant

Product Description

SYLVAGEL™ MP is a vegetable derived polymer. It is 100% active and is supplied in pastilles. It is formed by the reaction of functional amines and diacids terminated with various end groups. It gels liquids via hydrogen bonding between the amide groups. The diacid portion of the polyamide and its terminating groups are soluble in and associate with the liquid to be gelled.

Typical Properties

Bio-based carbon content, %, ASTM D6866	71
Softening Point °C, Ring & Ball	95
Color, Gardner	<4
Acid Number	<18
Amine Number	<3

Features

Benefits

Based on nature derived dimerized fatty acid	High bio-renewable carbon content
Unique, patented polyamide chemistry	Hydrogen bonding of the amide groups between polymer chains yields clear, thermo-reversible oil gels
Compatible with medium polarity liquids	Recommended for gelling esters, ketones, ethers and some alcohols including methylene chloride, ethylene glycol, propylene glycol, polyether polyols, butylenes carbonate, TETA
High softening point	Yields harder gels relative to SYLVAGEL™ LP
Polyamide chemistry, residual acid and amine functionality	Dispersion and stabilization of minerals and pigments

CAS Number

900161-21-9



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Product Data Sheet

Suggestions for Use

SYLVAGEL™ MP is suggested for use in making clear gels of medium polarity organic liquids where low color and clarity are important. Can be used to gel medium polarity fragrance oils in combination with oil based diluents to make high fragrance loaded, solid air fresheners.

SYLVAGEL™ MP is an excellent additive for dispersion and stabilization of oil based mineral, pigment or abrasive suspensions. Mineral or pigment stabilization results in significantly lower viscosities allowing for solids loadings.

Gel concentration is proportional to polymer loading; 1 to 5% results in a shear thinning, thixotropic fluid. Higher loading can result in clear hard solids. To make a gel heat the polymer in the target fluid to near its softening point (85 to 90° C) while mixing until polymer has melted and solution is completely clear. Cool to room temperature. Full gel strength will be realized after a few hours.

Please see "Specialty Polymers for Home Care and Industrial Applications Master Compatibility Table" for a list of materials tested.

Storage and Handling

Storage Conditions

Resin is soft at room temperature, compacting may occur during storage. To minimize compaction the resin should be stored in closed bags, pallets should not be stacked. Store at or below room temperature. Oxidation may occur over time resulting in darkening of the product.

Packaging

Resin is available in pastille form in multi-wall bags, 44 lbs net.



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