

KETJENFLEX® MH

Plasticizing Resin

AXC.05.04

General Information

KETJENFLEX® MH is a toluene sulfonamide based plasticizing co-resin used in Nail lacquers, Coatings, Adhesives and Inks.

Description and Application

KETJENFLEX® MH is the most widespread plasticizing resin for nitrocellulose based nail lacquers.

KETJENFLEX® MH imparts improved adhesion and wear properties and generally provides the lacquer system with a shiny glossy appearance.

KETJENFLEX® MH can also be used as plasticizing resin in solvent borne coating and ink formulations. Here KETJENFLEX® MH acts as non-migratory plasticizing co-resin improving adhesion and gloss of the system.

Applications:

- Nail lacquers
- Nitrocellulose coatings
- Cellulose acetate formulations
- Polyamid based systems
- Epoxy based coatings and adhesives
- Printing inks

Feature	Property
Sulfonamide backbone	<ul style="list-style-type: none"> • Improved anchoring • Improved pigment wetting
Resin functionality	<ul style="list-style-type: none"> • Non-migratory • Good compatibility
Phenyl moiety	<ul style="list-style-type: none"> • Excellent adhesion • Improved corrosion resistance

Specifications

Active matter (calcul.):	≥ 99.5%
Water content:	≤ 0.5%
Softening point:	55-65°C
Acid value:	≤ 0.6 mg KOH/g
Colour *):	≤ 40 Pt/Co
Turbidity *):	≤ 20 FTU
Free formaldehyde:	< 0.1%

*) 25% in butyl acetate

Physical Properties

Appearance:	hard, transparent resin
Density:	1350 kg/m ³
Flash point (open cup):	171°C
Boiling point:	decomposes
Solubility in water:	practically insoluble

Toxicological information

Acute toxicity (oral):	LD50 rat ≥ 5000 mg/kg
Dermal toxicity:	LD50 rat ≥ 7900 mg/kg
Acute toxicity (fish, 96h) (Oncorhynchus mykiss)	LC50 ≥ 120 mg/l
(Lepomis macrochirus)	LC50 ≥ 130 mg/l
Genotoxicity:	not mutagenic
Biodegradation:	not readily biodegradable

KETJENFLEX® MH is approved by the U.S. Food and Drug Administration (FDA) according to CFR 21, section:

- 175.105, 175.300, 175.320, 175.390
- 176.170, 176.180
- 177.1040, limitation: 0.15%
- 177.1200, limitation: 0.6 %
- 177.1400

Packaging

- 10 kg carton board boxes, 100 on a pallet

Storage

Keep packaging well closed. Store in a cool dry place. Elevated temperatures cause the particles to melt together. This has no consequences for the chemical suitability of the product in the final application.

The information presented herein is true and accurate to the best of our knowledge, but without any guarantee unless explicitly given. Since the conditions of use are beyond our control, we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

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