

KETJENFLEX® MS 80

Plasticizing Resin in Butyl Acetate

AXC.06.02

General Information

KETJENFLEX® MS 80 is a toluene sulfonamide based plasticizing co-resin dissolved in 20% butylacetate. It is used in Nail lacquers, Coatings, Adhesives and Inks.

Description and Application

KETJENFLEX® MS 80 is the liquid version of KETJENFLEX® MH the most widespread plasticizing resin for nitrocellulose based nail lacquers. KETJENFLEX® MS 80 has the advantage that it can be easily poured into formulation during the production process.

KETJENFLEX® MS 80 imparts improved adhesion and wear properties and generally provides the lacquer system with a shiny glossy appearance.

KETJENFLEX® MS 80 can also be used as plasticizing resin in solvent borne coating and ink formulations. Here KETJENFLEX® MS 80 acts as a non-migratory plasticizing co-resin improving the adhesion and gloss of the system.

Applications:

- Nail lacquers
- Nitrocellulose coatings
- Cellulose acetate formulations
- Printing inks

Feature	Property
Dissolved in butyl acetate	• Easier handling
Sulfonamide backbone	• Improved anchoring • Improved pigment wetting
Resin functionality	• Non-migratory • Good compatibility
Phenyl moiety	• Excellent adhesion • Improved corrosion resistance

Specifications

Active matter (calcul.):	≥ 78%
Butyl acetate:	18-22%
Water content:	≤ 0.5 %
Acid value:	≤ 0.6 mg KOH/g
Colour *):	≤ 40 Pt/Co
Turbidity *):	≤ 5 FTU
Free formaldehyde:	< 0.1%
Viscosity (at 25°C)	7 – 20 kPas

*) 25w/w% solution in butyl acetate

Physical Properties

Appearance:	Transparent liquid
Flash point (open cup):	33 - 35 °C
Boiling point:	127 °C (n-Butylacetate)
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® MS 80 is approved by the U.S. Food and Drug Administration (FDA) according to CFR 21, section:

- 175.105, 175.320
- 177.1200, 177.1400 (max 0.1% butylacetate)

Packaging

- 220 kg steel drums, 4 on a pallet

Storage

Keep packaging well closed. Store in a cool dry place.

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Europe, Americas, Middle East and Africa
Axcentive SARL
Chemin de Champouse
13320 Bouc Bel Air, France
Phone: +33 4 42 69 40 90
E-mail: info@axcentive.com
Web: www.axcentive.com

Asia, India and Australasia
Axcentive Asia Pte Ltd
13 Lorong 8 Toa Payoh, #07-01 Braddell Tech Park
319261 Singapore
Phone: +65 6258 6338
E-mail: info@axcentive.com
Web: www.axcentive.com