

## KETJENFLEX® MS 80

Plasticizing Resin in Butyl Acetate

Ref. AXC0006\_Rev.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	<ul style="list-style-type: none"> <li>• Easier handling</li> </ul>
Sulfonamide backbone	<ul style="list-style-type: none"> <li>• Improved anchoring</li> <li>• Improved pigment wetting</li> </ul>
Resin functionality	<ul style="list-style-type: none"> <li>• Non-migratory</li> <li>• Good compatibility</li> </ul>
Phenyl moiety	<ul style="list-style-type: none"> <li>• Excellent adhesion</li> <li>• Improved corrosion resistance</li> </ul>

### 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.

### Further Information

For transport, handling and first aid instructions please refer to the Safety Data Sheet, which is available on request.

For samples, technical service and further information please contact us:

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