

KETJENFLEX® 8

Plasticizer and adhesion promoter

AXC.02.05

General Information

KETJENFLEX® 8 is a toluene sulfonamide based additive used in Plastics, Inks, Adhesives and Coatings.

Description and Application

KETJENFLEX® 8 is used as a premium plasticizing additive in Plastics, Ink, Adhesive and Coating formulations. Due to its high solvation power KETJENFLEX® 8 effectively plasticizes many resin systems including nitrocellulose, polyamide, PVAC, rosin, epoxy, polyurethane, cellulose acetate and various biopolymers.

In addition, systems formulated with KETJENFLEX® 8 show improved resistance to oils, solvents and moisture. KETJENFLEX® 8 has good UV and thermal stability. In Coatings, Inks and Adhesives it additionally acts as adhesion promoter. Applications include:

- PVAC based coatings and adhesives
- Nitrocellulose based inks and coatings
- Ablative antifouling coatings
- Powder coatings
- Cellulose acetate compositions
- Synthetic polyamides
- Epoxy based coatings and adhesives
- Nail lacquers
- Casein based plastics

Feature	Property
Sulfonamide backbone	· Low bleeding, reduced leaching · Improved anchoring · Improved pigment wetting
Phenyl moiety	· Excellent adhesion · Improved corrosion resistance
High solvation power	· Increased efficiency · Broad application spectrum

Specifications

Active content:	≥ 99.0%
Water content:	≤ 0.7%
Colour (as such):	<100 Pt/Co
Acid value:	≤ 0.7mg KOH/g
Viscosity (at 25°C):	250 - 400 mPa.s

Physical Properties

Appearance:	clear, slightly yellow liquid
Boiling point (1kPa):	320 °C
Flash point (open cup):	174 °C
Density:	1200 kg/m ³

Toxicological information

Acute toxicity (oral):	LD50 rat > 2000 mg/kg
Genotoxicity, Amestest:	not mutagenic
Biodegradation:	Not readily biodegradable

KETJENFLEX® 8 is approved by the U.S. Food and Drug Administration (FDA) according to CFR 21, sections:

- 175.105, 175.300, 175.320, 175.390
- 176.180
- 177.1200, 177.1210, 177.1520

KETJENFLEX® 8 is listed on the Swiss Ordinance 'Verordnung' 817.023.21 Annex 6 Part A.

Packaging

- 240 kg in steel drums, 4 on a pallet

Storage

Prolonged storage below 0°C (32°F) may cause product to crystallize. If crystallization occurs, melt by heating to 40-45°C (104-113°F) making sure all crystals are dissolved. Incomplete dissolution can result recrystallization. Keep packaging well closed. Store in a cool dry place.

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