

KETJENFLEX® 8

Plasticizer and adhesion promoter

Ref. AXC0002_Rev.01

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	<ul style="list-style-type: none"> · Low bleeding, reduced leaching · Improved anchoring · Improved pigment wetting · Improved UV resistance
Phenyl moiety	<ul style="list-style-type: none"> · Excellent adhesion · Improved corrosion resistance
High solvation power	<ul style="list-style-type: none"> · Increased efficiency · Broad application spectrum

Specifications

Active content:	≥ 99.0%
Water content:	≤ 0.7%
Colour (as such):	50-130 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

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.

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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