

KETJENFLEX® 4

Plasticizer for polyamide

Ref. AXC0009_Rev.01

General Information

KETJENFLEX® 4 is a benzene sulfonamide based plasticizer used in Polyamide (co)polymers.

Description and Application

KETJENFLEX® 4 is used as a plasticizer in various polyamide plastic formulations. At dosage levels from 8 to 15% KETJENFLEX® 4 readily plasticizes:

- Polyamide 6
- Polyamide 6,6
- Polyamide 11
- Polyamide 12
- Copolymers of polyamide with either polyether, polyurethane and polyester

With its high boiling point of 314°C KETJENFLEX® 4 can be injected during the hot compounding process of polyamide without generating fumes or deposits in the vacuum hoses.

Articles produced of Polyamide/KETJENFLEX® 4 mixtures show good gas barrier properties and low liquid impregnation. KETJENFLEX® 4 will show a minimum of extrudation during lifetime of the manufactured part. Applications include:

- Air Brake tubing
- Hydraulic tubing
- Vacuum tubing
- Lubrication hoses
- A/C hoses
- Filaments

Specifications

Active content:	≥ 99.0%
Water content:	≤ 0.1%
Colour (as such):	≤ 30 Pt/Co
Acid value:	≤ 0.2 mg KOH/g
Viscosity (at 25°C):	150 - 180 mPa.s

Physical Properties

Appearance:	Clear liquid
Boiling point (1kPa):	314°C
Flash point (open cup):	200°C
Density:	1150 kg/m ³
Solubility in water:	Practically insoluble

Toxicological information

Acute toxicity (oral):	LD50 rat ≥ 2000 mg/kg
Genotoxicity (ametest):	Not mutagenic
Biodegradation:	Slowly biodegradable

Packaging

- 220 kg in coated steel drums, 4 drums (880 kg) on a pallet
- 1000 kg IBC
- Bulk deliveries

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:

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